

GenCode version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 8, 2005, 13:48:54 ; Search time 21.7385 Seconds

(without alignments)  
971.808 Million cell updates/sec

Title: US-10-037-860-11

Perfect score: 1462  
Sequence: 1 VQKGGVWVKVIFKTPNJDTE.....SIEPDERDYGGRMHGPD 283

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 744,064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 10%

Listing first 45 summaries

Database : Issued Patents N°:  
1: /cgn2\_6/procta/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/procta/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/procta/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/procta/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/procta/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/procta/1/1aa/backfill1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	618.5	42.3	462	3	US-09-189-527-13 Sequence 13, Appl
2	593	40.6	195	3	US-09-189-527-7 Sequence 7, Appl1
3	564	38.6	329	3	US-09-189-527-4 Sequence 4, Appl1
4	104.5	7.1	577	4	US-09-949-016-10835 Sequence 10835, A
5	100	6.8	750	4	US-09-585-1738-12 Sequence 12, Appl
6	98	6.7	1070	3	US-08-922-635-22 Sequence 22, Appl
7	98	6.7	1504	4	US-09-364-206-2 Sequence 2, Appl1
8	97.5	6.7	651	3	US-08-650-766-6 Sequence 6, Appl1
9	97.5	6.7	651	3	US-08-922-635-5 Sequence 5, Appl1
10	97.5	6.7	651	4	US-09-389-487-6 Sequence 6, Appl1
11	95	6.5	754	4	US-09-585-1738-51 Sequence 51, Appl
12	94	6.4	1307	4	US-09-949-016-7561 Sequence 7561, Ap
13	94	6.4	1560	4	US-09-264-5128-2 Sequence 25, Appl
14	93.5	6.4	1805	3	US-08-556-419-25 Sequence 25, Appl
15	93	6.3	1805	1	US-07-853-913-2 Sequence 2, Appl1
16	92	6.3	736	4	US-09-949-016-6441 Sequence 6441, Ap
17	92	6.3	736	4	US-09-252-991A-19048 Sequence 19048, A
18	92	6.3	1898	1	US-08-056-200-94 Sequence 94, Appl
19	92	6.3	1898	2	US-08-800-644-94 Sequence 94, Appl
20	92	6.3	1898	4	US-09-538-092-1280 Sequence 1280, Ap
21	91.5	6.3	300	4	US-09-252-991A-23947 Sequence 23947, A
22	91	6.2	497	4	US-09-345-473E-8 Sequence 8, Appl1
23	91	6.2	518	3	US-09-329-418-3 Sequence 3, Appl1
24	91	6.2	518	3	US-09-329-418-4 Sequence 4, Appl1
25	91	6.2	518	3	US-09-329-418-5 Sequence 5, Appl1
26	91	6.2	518	3	US-09-329-418-9 Sequence 9, Appl1
27	91	6.2	518	3	US-09-531-914-3 Sequence 3, Appl1

Best Available Copy

28	91	6.2	518	3	US-09-531-914-4	Sequence 4, Appl1
29	91	6.2	518	3	US-09-531-914-5	Sequence 5, Appl1
30	91	6.2	518	3	US-09-531-914-9	Sequence 9, Appl1
31	91	6.2	545	4	US-09-908-988B-4	Sequence 4, Appl1
32	91	6.2	555	4	US-09-949-016-10660	Sequence 10660, A
33	91	6.2	583	4	US-09-949-016-8267	Sequence 8267, Ap
34	91	6.2	1786	3	US-08-973-462-8	Sequence 8, Appl1
35	90.5	6.2	420	3	US-09-329-418-8	Sequence 8, Appl1
36	90.5	6.2	420	3	US-09-531-914-8	Sequence 8, Appl1
37	90	6.2	257	4	US-09-107-532A-6287	Sequence 6287, Ap
38	90	6.2	592	2	US-08-736-770-6	Sequence 6, Appl1
39	90	6.2	592	4	US-09-702-705-1809	Sequence 1809, Ap
40	90	6.2	592	4	US-09-736-457-1809	Sequence 1809, Ap
41	90	6.2	592	4	US-09-643-657-4	Sequence 4, Appl1
42	90	6.2	592	4	US-09-671-325-1809	Sequence 1809, Ap
43	90	6.2	605	4	US-09-949-016-8823	Sequence 8823, Ap
44	90	6.2	674	4	US-09-949-016-7034	Sequence 7034, Ap
45	90	6.2	755	4	US-09-949-016-7755	Sequence 7755, Ap

#### ALIGNMENTS

RESULT 1  
US-09-189-527-13  
Sequence 13, Application US/09189527A  
Patent No. 6387639  
GENERAL INFORMATION:  
APPLICANT: Jerome B. Posner  
APPLICANT: Josep O. Dalmau  
APPLICANT: Myrna R. Rosenfeld  
TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
FILE REFERENCE: SLK98-01  
CURRENT APPLICATION NUMBER: US/09/189,527A  
CURRENT FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 13  
LENGTH: 462  
TYPE: PRT  
ORGANISM: homo sapiens  
US-09-189-527-13

Query Match 42.3% Score 618.5; DB 3; Length 462;

Best Local Similarity 50.2% Pred. No. 2.7e-56;  
Matches 135; Conservative 44; Mismatches 85; Indels 5; Gaps 3;

QY	1	VQKGGVWVKVIFKTPNJDTEFLERLFLEREGQVSGMFALGQGVSPATVPICISPEL	60
DB	76	IGKGGPWEVVKPRNSDGEFLNRLNRLFLERERRVSDMNVLSGDTNCSAPRTVISPEF	135
QY	61	LAHLGQMAHAPQPLLPMRYRKRVSGSAVPAPEESFEVMEQATELYKMPVTEA	119
DB	136	WT-MAQTLGAQVPLQOMLYRELRVSGWTISIPGALADAWLEHTTEMLQMQVPEG	193
QY	120	EKKRWLAISLGPALDLNHIVOADNPSSIVECEAFQGVSGLSRRTAQVRYLYKVOE	179
DB	194	EKRRLMECLGPNQVSGVSGASASTVECEALAAQVGVGVPVSHIATYKCKAKAOE	253
QY	180	BGEKVSAYVRLLETLRAVEKRAIPRIADQVRLQVMAQATLNMKRLREKXQGP	239
DB	254	AGEKVSFVRLLEPLQRAVENNVSRNVAQTRKRVLSGATLPDKLRDKLKMKGRRK	313
QY	240	PSSEFLMKVREEEESAF--ENESETE	266
DB	314	PGFLALVKLRLREEEWEATLGPDESLE	342

RESULT 2  
US-09-189-527-7  
Sequence 7, Application US/09189527A  
Patent No. 6387639



GENERAL INFORMATION:  
APPLICANT: Jerome B. Posner  
APPLICANT: Joseph O. Dalmat  
APPLICANT: Myrna R. Rosenfeld  
TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
TITLE OF INVENTION: Antibodies  
FILE REFERENCE: SLK98-01  
CURRENT APPLICATION NUMBER: US/09/189,527A  
CURRENT FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows, Version 3.0  
SEQ ID NO: 7  
LENGTH: 195  
TYPE: PRT  
ORGANISM: homo sapiens  
US-09-189-527-7

Query Match 40.6%; Score 593; DB 3; Length 195;  
Best Local Similarity 98.3%; Pred. No. 3.5e-54;  
Matches 113; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VQKGGVWVIFKTPNQDTFLEKLGQVSGFRLGQGVSPATVPCISPFL 60  
DB 81 VQKGGVWVIFKTPNQDTFLEKLGQVSGFRLGQGVSPATVPCISPFL 140

QY 61 LHLGQMAHAPOPILPRKRLRVFSGSAVPAPEESFEVWLQATEIVKEMP 115  
DB 141 LHLGQMAHAPOPILPRKRLRVFSGSAVPAPEESFEVWLQATEIVKEMP 195

RESULT 3  
US-09-189-527-4  
Sequence 4, Application US/09189527A  
Patent No. 6387639  
GENERAL INFORMATION:  
APPLICANT: Jerome B. Posner  
APPLICANT: Joseph O. Dalmat  
APPLICANT: Myrna R. Rosenfeld  
TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
TITLE OF INVENTION: Antibodies  
FILE REFERENCE: SLK98-01  
CURRENT APPLICATION NUMBER: US/09/189,527A  
CURRENT FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows, Version 3.0  
SEQ ID NO: 4  
LENGTH: 329  
TYPE: PRT  
ORGANISM: homo sapiens  
US-09-189-527-4

Query Match 38.6%; Score 564; DB 3; Length 329;  
Best Local Similarity 47.0%; Pred. No. 8.7e-51;  
Matches 117; Conservative 47; Mismatches 73; Indels 12; Gaps 4;

QY 3 GKGWVKVIFKTPNQDTFLEKLGQVSGFRLGQGVSPATVPCISPFL 62  
DB 83 GKGWVKVIFKTPNQDTFLEKLGQVSGFRLGQGVSPATVPCISPFL 138  
QY 63 HILGQMAHAPOPILPRKRLRVFSGSAVPAPEESFEVWLQATEIVKEMP 121  
DB 139 EMLNLTIDNVIOPLVBSINVKRLTLFSGKHPAMRGNDPWLHTNEVLEWQVSDVER 198  
QY 122 KRWLAESLGPALDLNHIQADNPISVEECLEAFQVSGLESRTAQVRLKTYQEBG 181  
DB 199 RRLMSLSLGPADVIRILSNPAITTAELKALQGVSGVSSDADIKLNTYQNG 258  
QY 182 EKVSAYVRLLETLRLRAVEERAI PRRIADQVRLQVMAGA---TLNQMLCRLRELKQ 237  
DB 259 EKLSAYVRLLETLRLQVKEGALDKDNVQARLEQVIAGNHSGAIRQLWL---TGAGE 315  
QY 238 GPPPSFLLEL 246

DB 316 GPPKPLSLV 324

RESULT 4  
US-09-949-016-10835  
Sequence 10835, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CLO01307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10835  
LENGTH: 577  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-10835

Query Match 7.1%; Score 104.5; DB 4; Length 577;  
Best Local Similarity 22.1%; Pred. No. 0.044;  
Matches 43; Conservative 39; Mismatches 78; Indels 35; Gaps 5;

QY 96 EESFEVWLQATEIVKEMPTEBAEKRWLAESLGPALDLNHIQADNPISVEECLEA 155  
DB 290 EPEWVRVYVESVERIFRFPFGDAGBVTSLKANKLARSGHIFENDNDNSQEBEERK 349  
QY 156 FKQVFGSLGSRRTAQVRLKTYQEBGV-----AVYLRLETLRLRAVEERAI 204  
DB 350 YSIIGRFSR-----REGKLSHETITNEAQAQFCMRDNTLLRVEVLFSL 398  
QY 205 PRRIADQVRLQVMAGATLN---QMLKCRRELKQ-----QPPPSFLLEMKVIRE 252  
DB 399 SRQVARESTYLSLKGSRHPEELGCPPLKYLKQEVGSHPEIQPPGPESTVPPYRP 458  
QY 253 E-EEEBAEFENESIE 266  
DB 459 SLEEDSASLSESLD 473

RESULT 5  
US-09-585-173B-12  
Sequence 12, Application US/09585173B  
Patent No. 6570663  
GENERAL INFORMATION:  
APPLICANT: Butler, Karlene  
APPLICANT: Farnodu, Omolayo O.  
APPLICANT: Gutierrez, Steven  
APPLICANT: Maxwell, Carl  
TITLE OF INVENTION: Magnesium Chelataase  
FILE REFERENCE: BB1370 US NA  
CURRENT APPLICATION NUMBER: US/09/585,173B  
CURRENT FILING DATE: 2000-06-01  
PRIOR APPLICATION NUMBER: US 60/137,461  
PRIOR FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 54  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 12  
LENGTH: 750  
TYPE: PRT  
ORGANISM: Glycine max  
US-09-585-173B-12

Query Match 6.8%; Score 100; DB 4; Length 750;



Best Local Similarity 23.0%; Pred. No. 0.19;  
Matches 64; Conservative 40; Mismatches 94; Indels 80; Gaps 13.

```

Qy 21 FIERLNLFEKKG-----QIVSGNFRALGOGVS-----PAIVPCISPE-----LHALL 65
Db 214 YVDEINLT--DEGISLNLNLVSEGNATVEREGISFSPKPCRPILATINPEEGAVREHLL 271
Qy 66 GOMAHAPQBLPMRYRKAFVSSGSAVPAPEES--FEVNLREO-----ATELYKE 113
Db 272 DRIATLNSAD-LPMSEFNVAVAGIATEFOENSSOVFEWBEEDNATQOIIILAREYKO 330
Qy 114 WPTAEKXKRWLAESLRGPALDLMHIVQADNPISVEBCEAFKOVGSLRSRTAQRV 173
Db 331 VTLNRQLKXIVLEALRGCGQG--H--RAELPAARVAKCLAA-----LEGRE----- 373
Qy 174 LKTYGEEGKVSIVYVLRLETLRLKAVKZKALFRIRIADQVRLBQVAGATLNLQMLCRLRE 233
Db 374 -KYYVDD-----LKKAVELVILRSIITSSPDQ----- 401
Qy 234 LKDGPPPSFLLELMKYIRSEEESEAFSEWSEIEEPEER 271
Db 402 -QWQPPPPPPPNQNSGEGCNBEEBQEDKQENHEQO 438

```

## RESULT 6

```

US-08-922-635-22
Sequence 22, Application US/089222635A
Patent No. 6031871
GENERAL INFORMATION:
APPLICANT: FILETET, John E.
APPLICANT: IVANOV, Tina R.
TITLE OF INVENTION: DNA MOLECULES ENCODING IMIDALINE RECEPTIVE POLYPEPTIDES
TITLE OF INVENTION: AND POLYPEPTIDES ENCODED THEREBY
FILE REFERENCE: Corrected Sequence Listing
Patent No. 6031871
CURRENT APPLICATION NUMBER: US/08/922,635A
CURRENT FILING DATE: 1997-09-03
EARLIER APPLICATION NUMBER: 08/650,766
EARLIER FILING DATE: 1996-05-26
EARLIER APPLICATION NUMBER: 60/012,600
EARLIER FILING DATE: 1996-03-01
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 1070
TYPE: PRT
ORGANISM: Homo sapiens
US-08-922-635-22

```

Query Match	6.7%	Score 98;	DB 3;	Length 1070,
-------------	------	-----------	-------	--------------

Best Local Similarity 22.6%; Pred. No. 0.54;  
Matches 65; Conservative 33; Mismatches 103; Indels 86; Gaps 14

```

Oy      30 EKEGQIVSGNFRLL-----GEGVSIPATVPCISPELLAHLLGOMAHAP 73
          |||  |||
Db      10 EKEIDTVE-VLKAIQAKAEYKSLNPSPEKKGEDBRLSAPCIRPSSSPVAPASASLP 68
          |||  |||
Oy      74 OPLIPKRYKRLRVFGSSAVBPAREESFEVWLCEQATEIYVE--WPVPEAEKKMLAESARG- 131
          |||  |||
Db      69 QPIL-----SNQGMFVQGEHLEALSSLSSTOSLPENQINQ-----CSDSLESI 113
          |||  |||
Oy      132 PA-----LDLMIIVQADNPISIVSECLAEAFKQYF--GSLSERRRAQVRYLKTQYOE 189
          |||  |||
Db      114 PACGASDDLVDVPGAVGASPF---EHAAREVQVPPSGGIIPLPPTCIGYATQND- 167
          |||  |||
Oy      181 GEKVASVLELETLKRVVEKRAIPRIADQVRLVEQVAGATNOMLCSRYLEIKDQRP 240
          |||  |||
Db      168 -----PIQLSTLIQVTE-ROLP-----AWIEMANQREEGOG 195
          |||  |||
Oy      241 PSFELMKVIREEEESASFENSEIF---EEERDQYGRNMHGGD 283
          |||  |||
Db      200 EGGE---EDEEEEBEDVAENRYFENGCRPDDVEEBEGGGGGEEBEE 243
          |||  |||

```

RESULT 7  
US-09-364-206-2

US-09-364-206-2

Query Match	6.7%	Score 98;	DB 4;	Length 1504;
Best Local Similarity	22.6%	Pred. No. 0.91;		
Matches 65;	Conservative 33;	Mismatches 103;	Indels 86;	Gaps 14;

QY 30 EKEGQTVSGMPFAL-----GQGVSPATVPCISPELLAHLLQGMANAP 73  
Db 444 EKELDTVE-VLKAISKAKEVSKLSNPEKKGBGDSRLAAPICIRPSSSPPTVPAPASLUP 502  
QY 74 QPFLPRYRKLVFSGSAVPAPPEETSFEVMEQATLEYKE-MPTAEKKRMALAESLRG-1311  
Db 503 QPIL-----GNQIMFVQEBALASLSSTDSLSLPHQPIAQ-----GSDSLSEI 547  
QY 132 PA-----LDMHIVQADNPSPISVECCLEAFQVF---GSLESRTAQVRLKYQEE 180  
Db 548 PAQQAASDLRLVPAGAVGASP---SHAPEVQVVPGSQIILFLPFCIGITATND- 601  
QY 181 GEKVSAYVLTLETLRKAVKERRAPRIADOVRLBOVMAGATLNQMLCRLRELKQGP 240  
Db 602 -----FIQRLSTLROALE-RQLP-----AMIAANQREGGOG 633  
QY 241 PSFLLEMKYIRREEEESAFENESTE-----PPERDQVGRMNHGDD 283  
Db 634 HQGEE---EDEEEEBEDVAENRYFEMQPPVVEEBGGGQGEEBEEE 677

## RESULT 8

```

US-08-650-766-6
; Sequence 6, Application US/08650766D
; Patent No. 6015690
; GENERAL INFORMATION:
; APPLICANT: IVANOV, Tina R.
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A HUMAN
; TITLE OF INVENTION: METHOD FOR CLONING THE IMIDAZOLINE RECEPTOR AND
; FILE REFERENCE: Corrected Sequence Listing SAME
; Patent No. 6015690
; CURRENT APPLICATION NUMBER: US/08/650,766D
; CURRENT FILING DATE: 1996-05-10
; EARLIER APPLICATION NUMBER: US 60/012,600
; EARLIER FILING DATE: 1996-03-01
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 651
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-650-766-6

```







Query Match 6.5%; Score 95; DB 4; Length 754;  
Best Local Similarity 22.0%; Pred. No. 0.66; Indels 74; Gaps 11;  
Matches 60; Conservative 42; Mismatches 97

QY 20 EFLERINLFEKEGQTVSCWFRALGOEVS-----PATVPCISPE--LHAHLGQANA 70  
EGSNLLAVLVEGVNI-----VEBEGISPRHPCPLLIATVNPDEGSVREHLDIRAI 276  
DB 223 EGSNLLAVLVEGVNI-----VEBEGISPRHPCPLLIATVNPDEGSVREHLDIRAI 276  
QY 71 HAPQPLLPKRYKRLRVFSGSAVPAPEE-----ESFEVLEQATELVKEPVTE 118  
NLSAD-LPMSEFENRVAVGATEFQDNCQGVFKMVEDEDIDNACTQIILAREVLEKDTJISK 335  
DB 277 NLSAD-LPMSEFENRVAVGATEFQDNCQGVFKMVEDEDIDNACTQIILAREVLEKDTJISK 335  
QY 119 AEKRLASLRGPAIDLMHIVQADNPISVSECEAFKQVFGSLESRRTAQVRVLYKTYQ 178  
BOLKIVLELRKGVG--RAELYARVAKCLAA-----LGRS-----KATV 377  
DB 336 BOLKIVLELRKGVG--RAELYARVAKCLAA-----LGRS-----KATV 377  
QY 179 EGEKVSAYVLRLETLRKAVERKRAIPRIADQVRLEQVAGATLNMCLRELKDOG 238  
LKAVELVILPRSIITDTPPEQ-----QNGPPPP 409  
DB 378 DD-----LKAVELVILPRSIITDTPPEQ-----QNGPPPP 409  
QY 239 PPPSFLMKVTRSEESRASFENESIEEPEER 271  
PPQONESNEQNEEEOSEEDDNEDEEQ 442  
DB 410 PPQONESNEQNEEEOSEEDDNEDEEQ 442

RESULT 12  
US-09-949-016-7561  
Sequence 7561, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949, 016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 7561  
LENGTH: 1307  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-7561

Query Match 6.4%; Score 94; DB 4; Length 1307;  
Best Local Similarity 18.3%; Pred. No. 1.9; Indels 108; Gaps 8;  
Matches 48; Conservative 37; Mismatches 70

QY 92 VPAPSEESFEVMLEQATEIVEMPVTEAEKKRWLASLRGPAIDLMHIVQADNPISVSE 151  
IKLKEIIGNVQLEKAQOL-----SITSKVQGLQWLKCK-----EE 881  
DB 845 IKLKEIIGNVQLEKAQOL-----SITSKVQGLQWLKCK-----EE 881  
QY 152 CLEAFKQVFGSLESRRTAQVRVLYKTYOEBEKSAYV----- 168  
882 QMTMKAVLBEKEKDLANTGKMLDDQEENSLELAHVQEAQHNLEKASSASQFEELIV 941  
DB 189 QMTMKAVLBEKEKDLANTGKMLDDQEENSLELAHVQEAQHNLEKASSASQFEELIV 941  
QY 942 LKEKENELEKLEAMLEKESDLSKTLQDQVDE-----NKLRSQEQLEKQKNYQ 993  
239 PPPSFLMKVTRSEESRASFENESIEEPEER-----SIEEPEERD----- 272  
DB 994 QASPPPHR--ELKIVISEREKEISGLWNELESLKDAVEHQKKNRROQVEAVELEAK 1051  
QY 273 -----GVGRNH 279

DB 1052 EYLKKLFPKVSVPNSLSTGYEWLH 1074

RESULT 13  
US-09-264-512B-2  
Sequence 2, Application US/09264512B  
Patent No. 6610508  
GENERAL INFORMATION:  
APPLICANT: Hentze, Matthias W.  
APPLICANT: De Gregorio, Emilio  
TITLE OF INVENTION: TRANSLATION DRIVER SYSTEM AND METHODS FOR USE THEREOF  
FILE REFERENCE: 9862-004  
CURRENT APPLICATION NUMBER: US/09/264,512B  
CURRENT FILING DATE: 1999-03-08  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 1560  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-264-512B-2

Query Match 6.4%; Score 94; DB 4; Length 1560;  
Best Local Similarity 22.0%; Pred. No. 2.5; Indels 130; Gaps 16;  
Matches 82; Conservative 40; Mismatches 121

QY 14 TPNDTEFLERINLFEKEG-----QTVSGMFRALGOEVS PATVPCISPELLAHL 65  
410 SRAQSEEMEEREE--EEEGEAGEAGEASEKG-----GEBLLPESTPI--PAILSQWL 459  
DB 66 GQMAHAPPLPMRYKRLRVFS----- 88  
QY 460 EAAATQVAVSVPKRRKIKELKKEAVGDLDAFEKANPAVEVENQPPAGSNQPSSE 519  
89 GSAVPAPSEESFEVMLEQATEI-----VKEM-PYTEAEKKRWLASLNG 131  
520 GSGVPRPREABETWDSKEDKIHNENIQGROKYEKSDQKPPYLEKKKGYDRFFLLG 579  
QY 132 -----PALDLMHIVQ-----DNPSISVECELEAFKQVFGSL----- 163  
580 FQTFASMQKPEGLPIHSVVLIDKANKTEPLRLPDRLGICGPDFTSPANLGRTTUS 639  
DB 164 -----ESRRTAQV-----RYLKYOEGBEVSAYVLRLETLRKAVERKRAIP-- 205  
QY 640 TRGPPRGCGGELPRPOAGLGRRSQCGPRKPRKTIATVMTEDIKLNAKAKNKPSS 699  
206 RRIADQVRLEQVAGATLNMCLRLRELKDOGPPPSFLMKVTR--EER-- 256  
DB 700 KRTAADKRGEPADQSK--TQDLFRVRSILNKLTPQMFQOLMKQVTLAIDTEERLKV 758  
QY 257 -EASFENESIEEP 268  
DB 759 IDLIIE-KAISEP 770

RESULT 14  
US-08-556-419-25  
Sequence 25, Application US/08556419C  
Patent No. 6093549  
GENERAL INFORMATION:  
APPLICANT: Ross, Christopher  
APPLICANT: Li, Xiao-Jiang  
APPLICANT: Li, Shi-Hua  
APPLICANT: Sharp, Alan  
APPLICANT: Lananhan, Anthony  
APPLICANT: Morley, Paul  
APPLICANT: Snyder, Solomon  
TITLE OF INVENTION: Huntingtin-associated protein  
FILE REFERENCE: 01107.52271  
CURRENT APPLICATION NUMBER: US/08/556,419C  
CURRENT FILING DATE: 1995-11-09  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: FastSeq for Windows Version 3.0







GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

# OM protein - protein search, using sw model

Run on: April 8, 2005, 11:48:54 ; Search time 25.272 Seconds  
(without alignments)  
971.808 Million cell updates/sec

Title: US-10-037-860-4  
Perfect score: 1729  
Sequence: 1 MAMTLEEDKRCMDVNSQRT.....LTGAGEGPGPKPLSVAGADP 329

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 10%  
Maximum Match 100%  
Listing first 45 summaries

Database :  
1: /cgnt2\_6/prodata/1/1aa/5A\_COMB.pep:\*  
2: /cgnt2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
3: /cgnt2\_6/prodata/1/1aa/6A\_COMB.pep:\*  
4: /cgnt2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
5: /cgnt2\_6/prodata/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgnt2\_6/prodata/1/1aa/backfill1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB #	ID	Description
1	1729	100.0	329	3	US-09-189-527-4	Sequence 4, Appl
2	747.5	43.2	462	3	US-09-189-527-13	Sequence 13, Appl
3	441	25.5	195	3	US-09-189-527-7	Sequence 7, Appl
4	110.5	6.4	551	4	US-09-902-540-16701	Sequence 16701, A
5	103	6.0	935	4	US-09-914-259-25	Sequence 25, Appl
6	100.5	5.8	2293	3	US-09-368-590-2	Sequence 2, Appl
7	99.5	5.8	2600	4	US-09-949-016-7109	Sequence 7109, Ap
8	97.5	5.6	288	4	US-09-489-039A-12764	Sequence 12764, A
9	96	5.6	272	4	US-09-902-540-16406	Sequence 16406, A
10	93.5	5.4	573	4	US-09-328-352-6016	Sequence 6016, Ap
11	92.5	5.3	2214	4	US-09-902-540-15988	Sequence 15988, A
12	92.5	5.3	2431	1	US-07-920-281C-2	Sequence 2, Appl
13	92.5	5.3	2431	3	US-08-466-277-2	Sequence 2, Appl
14	92.5	5.3	2431	4	US-09-688-842-2	Sequence 2, Appl
15	91.5	5.3	378	2	US-09-055-097-1	Sequence 1, Appl
16	91.5	5.3	378	4	US-09-373-902-1	Sequence 1, Appl
17	91.5	5.3	378	4	US-09-831-630-13	Sequence 13, Appl
18	91.5	5.3	393	4	US-09-949-016-11567	Sequence 11567, A
19	91	5.3	565	4	US-09-543-681A-5919	Sequence 5919, Ap
20	90	5.2	688	4	US-09-352-991A-12748	Sequence 12748, A
21	89.5	5.2	880	4	US-09-489-039A-12446	Sequence 12446, A
22	89	5.1	178	4	US-09-489-039A-11551	Sequence 11551, A
23	88.5	5.1	389	4	US-09-252-991A-12086	Sequence 12086, A
24	88.5	5.1	499	4	US-09-902-540-14146	Sequence 14146, A
25	88.5	5.1	4872	4	US-09-424-783-3	Sequence 3, Appl
26	87.5	5.1	588	4	US-09-438-185A-23	Sequence 23, Appl
27	87	5.0	600	3	US-09-212-971-12	Sequence 12, Appl

28	87	5.0	600	3	US-08-800-929A-12	Sequence 12, Appl
29	87	5.0	600	3	US-09-617-053A-12	Sequence 12, Appl
30	87	5.0	1300	4	US-09-543-681A-4501	Sequence 4501, Ap
31	86.5	5.0	373	4	US-09-328-352-7009	Sequence 7009, Ap
32	86	5.0	555	4	US-09-492-709A-308	Sequence 308, Ap
33	86	5.0	854	4	US-09-134-000C-4673	Sequence 4673, Ap
34	85	4.9	469	3	US-08-985-335-9	Sequence 9, Appl
35	85	4.9	1209	4	US-09-410-372-9	Sequence 9, Appl
36	85	4.9	1209	4	US-09-252-991A-25844	Sequence 25844, A
37	84.5	4.9	1105	3	US-08-999-774A-2	Sequence 2, Appl
38	84.5	4.9	4866	4	US-09-424-783-2	Sequence 2, Appl
39	84	4.9	406	4	US-09-328-352-6564	Sequence 6564, Ap
40	84	4.9	871	3	US-09-134-001C-3979	Sequence 3979, Ap
41	83.5	4.8	332	4	US-09-252-991A-24064	Sequence 24064, A
42	83.5	4.8	431	4	US-09-543-681A-6055	Sequence 6055, Ap
43	83	4.8	341	1	US-08-314-309A-19	Sequence 19, Appl
44	83	4.8	524	3	US-08-557-210A-3	Sequence 3, Appl
45	83	4.8	539	3	US-08-557-210A-4	Sequence 4, Appl

## ALIGNMENTS

RESULT 1  
US-09-189-527-4  
; Sequence 4, Application US/09189527A  
; Patent No. 6187639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Josep O. Dalmau  
; APPLICANT: Myrina R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-4

Query Match 100.0%; Score 1729; DB 3; Length 329;  
Best Local Similarity 100.0%; Pred. No. 3.1e-182;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MAMTLEEDKRCMDVNSQRTLLVWCI	PVNCDBAEIETLQAA	POVSYRMLGRMTWREBN	60
DB	1	MAMTLEEDKRCMDVNSQRTLLVWCI	PVNCDBAEIETLQAA	POVSYRMLGRMTWREBN	60
QY	61	AKAALLETGADVVAIRREMPKGGVWVLFKPTSDAEFLERHLFLAREGTVODVA	120		
DB	61	AKAALLETGADVVAIRREMPKGGVWVLFKPTSDAEFLERHLFLAREGTVODVA	120		
QY	121	RVLGFONPTPTGPEMPAEMLYIIDNV	IQPLVESIWKRLTLFSGKHPRAMGNFDPW	180	
DB	121	RVLGFONPTPTGPEMPAEMLYIIDNV	IQPLVESIWKRLTLFSGKHPRAMGNFDPW	180	
QY	181	LEHTVEVLEBQVSVKRRRLMESLRGPADVIRILKSNPAITTA	CKALEQVFGSV	240	
DB	181	LEHTVEVLEBQVSVKRRRLMESLRGPADVIRILKSNPAITTA	CKALEQVFGSV	240	
QY	241	ESSRDAQIKFLTYONPEKLSAVYIRLEPPLQKVEKGAIDKQVNVQARLEOV	IAGANH	300	
DB	241	ESSRDAQIKFLTYONPEKLSAVYIRLEPPLQKVEKGAIDKQVNVQARLEOV	IAGANH	300	
QY	301	SGAIRRQMLTGTAGEGPGPKPLSVAGADP	329		
DB	301	SGAIRRQMLTGTAGEGPGPKPLSVAGADP	329		







Patent No. 6495316  
 GENERAL INFORMATION:  
 APPLICANT: Makowski, Lee  
 APPLICANT: Hyman, Paul  
 APPLICANT: Williams, Mark  
 TITLE OF INVENTION: STAGED ASSEMBLY OF NANOSTRUCTURES  
 FILE REFERENCE: 8471-010-999  
 CURRENT APPLICATION NUMBER: US/09/914,259  
 CURRENT FILING DATE: 2000-11-21  
 NUMBER OF SEQ ID NOS: 180  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 25:  
 LENGTH: 935  
 TYPE: PRF  
 ORGANISM: Synccephalastrum racemosum  
 US-09-914-259-25

Query Match 6.0%; Score 103; DB 4; Length 935;  
 Best Local Similarity 21.7%; Pred. No. 0.091;

Matches 69; Conservative 56; Mismatches 121; Indels 72; Gaps 15;

QY 16 NSQRTLVKGVNCDNAEIEETLOAMPQVSYRMLGRMFREBNKALLL----- 68  
 DB 297 NSRTLLINCSPPSYNEASTLTLRFGARAKSIKKAKV-----NADLSPELKALLKV 351  
 QY 69 -TGADVAAIPREMGKGVKVLFRPPTSDAEFLERHLFLAREG-WTVQDVAVLGFQ 126  
 DB 352 KSEAVTYQTYIALEGEVNVKRGTVP-----BKNVTMKVSKGDBA 395  
 QY 127 NPTPTGPEMPAEMLYILDVNIQPLVESIWKRLTLFSGKGPRAWRGNFDPMLTEHNE 186  
 DB 396 GLPAPAGFSP-----VDEGSRPATPV-----FLEKDEREEFTIKRENE 435  
 QY 187 VAEENQVSE-----KRRLMESLR-----GPADVIRILKSNPAIT--AECKKLEQVF 237  
 DB 436 LMD--QISEKETELTRKLTSLREEMGYKEQDSVTKENQOMTSELRLQLOKV 492  
 QY 238 GSVESSRDQIFLNTYQNPGEKLSAYVIRLEPLQKV--VEKGAIDKDNVQ--ARLEQ 293  
 DB 493 -SYSEKEMAIT--VDSLKANODLMALEBELKKNLSKEMQAKHDATSDKEKRRKAKQ 549  
 QY 294 VIAGANHSQAI---RRQL 308  
 DB 550 KMSGFDPSGILDKERQI 557  
 TYPE: PRF  
 ORGANISM: Human  
 US-09-914-259-25

RESULT 6  
 US-09-368-590-2  
 Sequence 2, Application US/09368590  
 Patent No. 6187563  
 GENERAL INFORMATION:  
 APPLICANT: Solimena, Michele  
 TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR  
 TREATMENT OF INFECTIONS: AUTOANTIGENS OF AUTOIMMUNE DISEASES  
 FILE REFERENCE: 101918-200 (OCR-941)  
 CURRENT APPLICATION NUMBER: US/09/368,590  
 CURRENT FILING DATE: 1999-08-04  
 EARLIER APPLICATION NUMBER: 60/095,657  
 EARLIER FILING DATE: 1998-08-07  
 NUMBER OF SEQ ID NOS: 8  
 SOFTWARE: FastSeq for Windows Version 3.0  
 SEQ ID NO 2  
 LENGTH: 2293  
 TYPE: PRF  
 ORGANISM: Human  
 US-09-368-590-2

Query Match 5.8%; Score 100.5; DB 3; Length 2293;  
 Best Local Similarity 22.6%; Pred. No. 0.76;  
 Matches 78; Conservative 55; Mismatches 139; Indels 77; Gaps 18;

QY 9 WCRGMDVNSR-----TLVWGIPIVNCDE--AEIETLOAMPQVSYRMLGRMFREEN 60  
 DB 1234 AHYQQLFLR-DLRQALVVLRLNDEMALSAGELPGTVESVEEALKQRD-----FLTTELSQ 1288  
 QY 259 EKLSTAVIRLEPL-----QKVEKGAIDKDNVQARLEQ 293

DB 667 WNRIVELVEORKEKNSAVLVENHVEAEVRAQVREKRAV--ESAPRAGALQMRISG 724  
 QY 61 AKALLLEP-----TGADVAAIPRE-MPGK-----GGWVKVLEKPTSDAE----- 100  
 DB 725 LEALQALEPQALIEBAILAEFPQAAKXKHOGAEELGAEKALASMAQAGEAVAA 784  
 QY 101 -----FLERHLFLAREGWTQDVAVLGFQNPPTPGPEMPAEMLY-IIDVNIQPLV 153  
 DB 785 AGRLORFHLDIAFL--DMLVRAQEAAGSGEGLPNSLEEDALLARHAAKKEVDQRE 841  
 QY 154 ESIWKRL-----TLFSGKGPRAWRGNFDPMLTEHNE-----NEVLEEMQVSDVEKRRIME 204  
 DB 842 ED--YARIVAASEALLADGAEGLGALDEVLPHLELGMHKLGLMKA---RKALVQ 895  
 QY 205 S-----LRGPADVIRILKSNPAITTAECIKALEQVFGSVSSRDQIKFLNTYQNP 258  
 DB 896 AHYQQLFLR-DLRQALVVLRLNDEMALSAGELPGTVESVEEALKQRD-----FLTTELSQ 950  
 QY 259 EKLSTAVIRLEPL-----QKVEKGAIDKDNVQARLEQ 293  
 DB 951 QKMVAOVAEGELRQGNIGEOQAEAVTR-LLEKQENQJRAQO 994

RESULT 7  
 US-09-949-016-7309  
 Sequence 7309, Application US/09949016  
 Patent No. 6812339  
 GENERAL INFORMATION:  
 APPLICANT: VENTER, J. Craig et al.  
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 FILE REFERENCE: CLO01307  
 CURRENT APPLICATION NUMBER: US/09/949,016  
 CURRENT FILING DATE: 2000-04-14  
 PRIOR APPLICATION NUMBER: 60/241,755  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/237,768  
 PRIOR FILING DATE: 2000-10-03  
 PRIOR APPLICATION NUMBER: 60/231,498  
 PRIOR FILING DATE: 2000-09-08  
 NUMBER OF SEQ ID NOS: 207012  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 7309  
 LENGTH: 2600  
 TYPE: PRF  
 ORGANISM: Human  
 US-09-949-016-7309

Query Match 5.8%; Score 99.5; DB 4; Length 2600;  
 Best Local Similarity 22.6%; Pred. No. 1.2;  
 Matches 78; Conservative 50; Mismatches 140; Indels 77; Gaps 18;

QY 9 WCRGMDVNSR-----TLVWGIPIVNCDE--AEIETLOAMPQVSYRMLGRMFREEN 60  
 DB 1005 WNRIVELVEORKEKNSAVLVENHVEAEVRAQVREKRAV--ESAPRAGALQMRISG 1062  
 QY 61 AKALLLEP-----TGADVAAIPRE-MPGK-----GGWVKVLEKPTSDAE----- 100  
 DB 1063 LEALQALEPQALIEBAILAEFPQAAKXKHOGAEELGAEKALASMAQAGEAVAA 1122  
 QY 101 -----FLERHLFLAREGWTQDVAVLGFQNPPTPGPEMPAEMLY-IIDVNIQPLV 153  
 DB 1123 AGRLORFHLDIAFL--DMLVRAQEAAGSGEGLPNSLEEDALLARHAAKKEVDQRE 1179  
 QY 154 ESIWKRL-----TLFSGKGPRAWRGNFDPMLTEHNE-----NEVLEEMQVSDVEKRRIME 204  
 DB 1180 ED--YARIVAASEALLADGAEGLGALDEVLPHLELGMHKLGLMKA---RKALVQ 1233  
 QY 205 S-----LRGPADVIRILKSNPAITTAECIKALEQVFGSVSSRDQIKFLNTYQNP 258  
 DB 1234 AHYQQLFLR-DLRQALVVLRLNDEMALSAGELPGTVESVEEALKQRD-----FLTTELSQ 1288  
 QY 259 EKLSTAVIRLEPL-----QKVEKGAIDKDNVQARLEQ 293



Db 1289 GKNQVAVQAEGILRGNIYGEQAQEAATR-LEKIQENQLAAQQ 1332

RESULT 8  
US-09-489-039A-12764

Sequence 12764, Application US/09489039A

Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 12764

LENGTH: 288

TYPE: PR

ORGANISM: Klebsiella pneumoniae

US-09-489-039A-12764

Query Match

Best Local Similarity 24.5%; Score 97.5; DB 4; Length 288;

Matches 76; Conservative 51; Mismatches 110; Indels 73; Gaps 18;

28 VNCDEAEIETIQAM--PQVSYRMIGRMF--REBNKAALEITGADVAAIREMNG 83

11 VVISEANLQOTLOOSNNVFLY-----FMSARQHC-----QLTPVLERLA--AQYNG 58

84 KGVWVLFKPTSDAEFLERLHLFLAREGTVQDVAVLGFQNPPTPGPE--MPAEWL 141

59 OPTIAKV-----DCDAEQM-----LASQ-FGLRAIPYVLFQNGPVDGFGPQPEEAI 106

142 NYLDNVIOPLVESIWKRLTLPSCGKHPARMGNFDPWLEHTNEVLEWQVSDVEKRRR 201

107 RALTKVPREREELAAQALALMOEKYADAL-----PLTK-----EAMQLSNDSQIG 155

202 LMESLRGPAVDYIRILKSNPAITTAECALAEQ---VGSVSSRDQIKFLNTYQNG 258

156 LV-----LAETLIALHNSDEAESVUKTIPLODDOTHQGLV-----AQIEYL----- 197

259 EKLSAVIRLEPLLOKVEKGAIDKDNVNAQARLEQVIAGANHSGA-----IRQLMLTG 312

198 -KQADTPEIQ-LOQVJQNPEDAQALASQALQLHQVGRNEBALALLFSHQKDL---G 252

313 AGEGRGPKPL 322

253 AGDQARKKL 262

Db

US-09-902-540-16406

Sequence 16406, Application US/09902540

Patent No. 6833447

GENERAL INFORMATION:

APPLICANT: Goldman, Barry S.

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Wiegand, Roger C.

TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

FILE REFERENCE: 38-10(15849)B

CURRENT APPLICATION NUMBER: US/09/902,540

CURRENT FILING DATE: 2001-07-10

PRIOR APPLICATION NUMBER: 60/217,883

PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825

SEQ ID NO 16406

LENGTH: 272

TYPE: PR

ORGANISM: Myxococcus xanthus

US-09-902-540-16406

Query Match

Best Local Similarity 27.5%; Score 96; DB 4; Length 272;

Matches 41; Conservative 21; Mismatches 63; Indels 24; Gaps 5;

21 LTVGIPVNCDEAEIETIQAMPQVSYRMIGRMF--REBNKAAAL-----LEITGAVD 73

67 LKNVRPIADADBARVAVRADVGPVYKRLDANGSMSEPAKRALDRIGWGLL---VE 123

74 YAAIREMFGKGVWVLFKPTSDAEFLERLHLFLAREGTVQDVAVLGFQNPPTPG 133

124 OPTPEDE---AALMRVORAPCTVA-----ADESLASPDALRALITVDFLGGG 170

134 PEMPAEMLN-YILDNVIOPLVESIWKRL 161

171 PAVGAVVLKPNVLGGILPLCLVAMKAAKL 199

Db

US-09-328-352-6016

Sequence 6016, Application US/09328352

Patent No. 6562958

GENERAL INFORMATION:

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: GTC99-03PA

CURRENT APPLICATION NUMBER: US/09/328,352

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 6016

LENGTH: 573

TYPE: PR

ORGANISM: Acinetobacter baumannii

US-09-328-352-6016

Query Match

Best Local Similarity 22.0%; Score 93.5; DB 4; Length 573;

Matches 52; Conservative 25; Mismatches 98; Indels 61; Gaps 5;

90 VLFKPTSDAEFLERLHLFLAREGTVQDVAVLGFQNPPTPGPEMPEMLNTIYLDN 147

204 LLDPEPTHLDAESVWERFL-----KDPGTVATTHDRYFLDN 244

148 VIOPVESIWKRLTLPSCGKHPARMGNFDPWLEHTNEVLEWQVSDVEKRRRLMESLR 207

245 VAEMTLE-----LDRGHGIPYQGNITSMLEQKARLEQKQGESEFAKALKELE 294

208 GPADVIRILKSNPAITTAECALAEQVFGSVSSSRDQIKFLNTYQNGPKLSAYVIR 267

295 WYQVAKGQKKKAKAMERFEELNSRE-----FQQRSETSEIYIP 335

268 LEPLLOKVEKGAIDKDNVNAQARLEQV-----IAGANSGAIRRLMLTG 312

336 GPRIGNKVEVENISKSGDRLLYENLSFTVPAPAIIVGVPNGAKTTLFRMTMG 391

Db

US-09-902-540-15988

Sequence 15988, Application US/09902540

Patent No. 6833447

GENERAL INFORMATION:

APPLICANT: Goldman, Barry S.

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Wiegand, Roger C.

TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

FILE REFERENCE: 38-10(15849)B

CURRENT APPLICATION NUMBER: US/09/902,540

CURRENT FILING DATE: 2001-07-10

PRIOR APPLICATION NUMBER: 60/217,883

PRIOR FILING DATE: 2000-07-10



NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 15988  
LENGTH: 2214  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-15988

Query Match 5.3%; Score 92.5; DB 4; Length 2214;

Best Local Similarity 21.0%; Pred. No. 5.5; Mismatches 136; Indels 119; Gaps 16;

Matches 80; Conservative 46; Mismatches 136; Indels 119; Gaps 16;

QY 25 GIPVNCDEAIEETLOAMPQVSYRMIGMFREENAKAALLELTGAV-----DVA 75  
DB 395 GGPEDBAALALBNAALOGPAPRVEALL-----ARALLSSGSMADAGOSLEALLA 445  
QY 76 AIPREMPKGVKVKLFKPTSDAEFLERLHLFLAREGTVODVARVLGFONP--TPPG 133  
DB 446 LAPRHAQATAALQRYL-----RTEDMAA--LAEILSTEAPHVAPABA 486  
QY 134 PEMPAEMLYILDNVIOQL-VESIMYKRLTLFSGKHPR-----AMRGNDPMLHEHN 185  
DB 487 AAMVYELASVLYDRSQP/PABAALRQALRLSPSDAAVRLVSLVAERK---LREBA 542  
QY 186 EYLEENQVS-----DYEKRRRL-----MESLRGP---AADVI 214  
DB 543 ALLETAASATAHDAALLREGAGVARGAHDDIKALKARKAHALVPAGGPELASLAEIL 602  
QY 215 RLKSNNPATITAECLKALEQVFGSVESRDNOIKFLNTYQNPGE---KLSAY----- 264  
DB 603 YLRGAVIEALPLQDMLAAADPRSAPEEAESTWLRMLAEIQTGETKRAVVAAYRKLVER 662  
QY 265 -----VIRLEPILQVKEKGAID-----KQNVNO-----ARLEQVIGANHS 301  
DB 663 PLCEAAVMKLAALLLEKDDPRGAFDVRVTAAHALAPSEDTVQRLVELSARAREVLDA--- 719  
QY 302 GAIRROLMLTGAGEGPGPKPL 322  
DB 720 -GVAASLLARBAASLASSEPLPL 739

# RESULT 12

US-07-920-281C-2  
Sequence 2, Application US/07930281C  
Patent No. 5739026

## GENERAL INFORMATION:

APPLICANT: Garoff, Henrik  
APPLICANT: Liljestrom, Peter  
TITLE OF INVENTION: DNA Expression Systems Based on  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSES: Birch, Stewart, Kolasch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/320,281C  
FILING DATE: 13-AUG-1992

## CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:  
NAME: Murphy Jr., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 828-103P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2848

TELEX: 248345

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2431 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-07-920-281C-2

Query Match 5.3%; Score 92.5; DB 1; Length 2431;

Best Local Similarity 19.6%; Pred. No. 6.4;

Matches 74; Conservative 50; Mismatches 112; Indels 141; Gaps 15;

QY 52 GMPFREENAKAALLELTGADVVAIPREMCKGVKVKLFKPTSDAEFLERLHLFL-- 109  
DB 865 GMRRTNPCKRIIIDDG-----OTKPPGDIULTCRGMAKQLOLDRGHEVNTA 916  
QY 110 -AREGTVQDVARVILGFONPTPTPGPEMPAEMLYILDNVIOPLVESIMYKRLTLFSGKG 168  
DB 917 AASQGLTRKGVYAVRQKNENPLVAP--ASEHVAVLLTRTDRLV---WTLA----- 964  
QY 169 HPRANRGNPDVPLEHTEV-----LEENQVSDVEKRRRLMESLRGPADV----- 213  
DB 965 -----GDPWIKVLSNIPQGNFTATLEBQO---EHDIMKVIIEGPAPVDAFQNK 1012  
QY 214 -----IRILKSNNPATITAECLKALEQV-----ECLKALEQV----- 236  
DB 1013 NVCAKSLVPLVDTRAGILTLAEENSTITAKREDRAVSPVVAALNEICRKYGVDDSLGF 1072  
QY 237 -----FGVYESSR-DAQIKFLNTYQNPGEKLSAYVIRLEPL 271  
DB 1073 SAPKVSLEYENNHNDRPGRMVYGFNATAPARLEARHFLKGMQHTGQAVIAERKIQPL 1132  
QY 212 -LQKVE-----KGALDKNNVQARLEQVITAGNHSGL--RQRLWT 311  
DB 1133 SVLDNVIPINRRLPHALVAEYKTVKGRVEMLVNKKVRHYLLVSEYNLALPRRVTLWS 1192  
QY 312 GAGEGPGPKPLSVAGAD 328  
DB 1193 -----PLNVTGAD 1200

# RESULT 13

US-08-466-277-2  
Sequence 2, Application US/08466277  
Patent No. 6190666

## GENERAL INFORMATION:

APPLICANT: Garoff, Henrik  
APPLICANT: Liljestrom, Peter  
TITLE OF INVENTION: DNA Expression Systems Based on  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSES: Birch, Stewart, Kolasch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,277  
FILING DATE: 06-Jun-1995

## CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:  
NAME: Murphy Jr., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 828-103P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2848



REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 828-103P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2848  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2431 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-08-466-277-2

Query Match 5.3%; Score 92.5; DB 3; Length 2431;  
Best Local Similarity 19.6%; Pred. No. 6.4;  
Matches 74; Conservative 50; Mismatches 112; Indels 141; Gaps 15;

52 GEMFWEENAKAALLLELTGAVDVAIAIPREMPGKGWVKLFKPPTSDAEFLERLHLFL-- 109  
DB 865 GKRRTTNPCNKPIIIDTIG-----QTKPKRGDIVLTCFRGMAKQOLDYRGHEWMTA 916  
QY 110 -AREGTVQDVAVVLFQNPPTPGPEMPAEMLVLDNVIOPLVESIWKRLTLFSGKG 168  
DB 917 AASQGLTRKGVAVRQKVENPLVAP--ASEHVNVLLTRTEDRLV---WKTLA----- 964  
QY 169 HPRARNGDFWLEHTNEV-----LEEQVSDVEKRRRLMESIRGPAADV----- 213  
DB 965 -----GDWIKVLSNIPQGNFTATLEWQ---EEHDKIMKVIIEGPAAEVDAFONKA 1012  
QY 214 -----IRILKSNNPATITTA-----ECLKALEQV----- 236  
DB 1013 NVCAKSLVPLVDIAGIRLTAEMWSTIITAFKEDRAVSPVALNEICTKYGVDDSLGF 1072  
QY 237 -----FGSVESSR-DAQIKELNTYONPGEKLSAVYIRLEPL 271  
DB 1073 SAPKVSLEYENNHNDRPGRMVGFNAATARLARHTFLKQWHTGQAVIAERKIQPL 1132  
QY 272 --LQKVE-----KGAIKDNVNOARLEQVIAGANHSQAI--RQQLWLT 311  
DB 1133 SVLDNVIPINRRLPHALVAEYKTVKGSREVMVNVKRGYHVLVSEYNLALPRRRVTWLS 1192  
QY 312 GAGEGPGPKPLSVAGAD 328  
DB 1193 -----PLNVTGAD 1200

RESULT 14  
US-09-688-842-2  
Sequence 2, Application US/09688842  
Patent No. 6770283  
GENERAL INFORMATION:  
APPLICANT: Garoff, Henrik  
Liljestrom, Peter  
TITLE OF INVENTION: DNA Expression Systems Based on  
Alpha/Altruses  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolaach & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/688,842  
FILING DATE: 17-Oct-2000

CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/466,277  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Murphy Jr., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 828-103P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2848  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2431 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-688-842-2

Query Match 5.3%; Score 92.5; DB 4; Length 2431;  
Best Local Similarity 19.6%; Pred. No. 6.4;  
Matches 74; Conservative 50; Mismatches 112; Indels 141; Gaps 15;

52 GEMFWEENAKAALLLELTGAVDVAIAIPREMPGKGWVKLFKPPTSDAEFLERLHLFL-- 109  
DB 865 GKRRTTNPCNKPIIIDTIG-----QTKPKRGDIVLTCFRGMAKQOLDYRGHEWMTA 916  
QY 110 -AREGTVQDVAVVLFQNPPTPGPEMPAEMLVLDNVIOPLVESIWKRLTLFSGKG 168  
DB 917 AASQGLTRKGVAVRQKVENPLVAP--ASEHVNVLLTRTEDRLV---WKTLA----- 964  
QY 169 HPRARNGDFWLEHTNEV-----LEEQVSDVEKRRRLMESIRGPAADV----- 213  
DB 965 -----GDWIKVLSNIPQGNFTATLEWQ---EEHDKIMKVIIEGPAAEVDAFONKA 1012  
QY 214 -----IRILKSNNPATITTA-----ECLKALEQV----- 236  
DB 1013 NVCAKSLVPLVDIAGIRLTAEMWSTIITAFKEDRAVSPVALNEICTKYGVDDSLGF 1072  
QY 237 -----FGSVESSR-DAQIKELNTYONPGEKLSAVYIRLEPL 271  
DB 1073 SAPKVSLEYENNHNDRPGRMVGFNAATARLARHTFLKQWHTGQAVIAERKIQPL 1132  
QY 272 --LQKVE-----KGAIKDNVNOARLEQVIAGANHSQAI--RQQLWLT 311  
DB 1133 SVLDNVIPINRRLPHALVAEYKTVKGSREVMVNVKRGYHVLVSEYNLALPRRRVTWLS 1192  
QY 312 GAGEGPGPKPLSVAGAD 328  
DB 1193 -----PLNVTGAD 1200

RESULT 15  
US-09-055-097-1  
Sequence 1, Application US/09055097  
Patent No. 5955282  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPPLICANT: Guegler, Karl J.  
APPPLICANT: Corley, Neil C.  
APPPLICANT: Shah, Purvi  
APPPLICANT: Patterson, Chandra  
TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304



COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/055,097  
FILING DATE: Filed Herewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Gertone, Michael C.  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: Rf-0490 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 845-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ. ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 378 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: DIODNOT02  
CLONE: 1705085  
US-09-055-097-1

Query Match 5.3%; Score 91.5; DB 2; Length 378;  
Best local Similarity 23.9%; Pred. No. 0.38;  
Matches 61, Conservative 26, Mismatches 89, Indels 79, Gaps 15;  
QY 11 RGNV-----NSQRTLVW---GIFVNCDEAEIEETLOAMPQVSFR-----MLGR 53  
DB 101 RGLRVQTLFLGLGEPNQH--VMSGQSDLASAAGDILQAF-QDSYRNLTTLKLSG 157  
QY 54 MFWRENAAVALLELGAVD-YAIPREMP-----GKGWVKVLFKPP-TSDAEFLERL 105  
DB 158 LNWAEHCHPMARYVLTDDVYVNVFELVSELVLRGRMGQMERSTEPQREAEQEGQYL 217  
QY 106 H-----LFLAREGWTVDYARVLGFONPTPTPGPEMPAEMLYILDNVIQPLVESIWK 159  
DB 218 HSEEVPLLYIGRVHVR-----NPSRTPGGR-----HRVSEQW--- 251  
QY 160 RLTLFGKGHPRAMRGHFDPMLEHTNEVLEMQVS--DYKRRRLMESLRGPADVIRI 216  
DB 252 -----PHTW-GFPFPYASGTGYLSASAVQILKVASRAPLL-----PLEDEVWG 295  
QY 217 LKSNPAITTAECTK 231  
DB 296 VSAARGGLAPTQCVK 310

Search completed: April 8, 2005, 12:52:53  
Job time : 27.272 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd

OM protein - protein search, using sw model

```
Run on:      April '8, 2005, 12:40:26 ; Search time 73.4975 Seconds
              (without alignments)
              1486.133 Million cell updates/sec
```

Title: US-10-037-860-4  
Perfect score: 1729  
Sequence: 1 MAMTILEDWCMQMDVNSQRT.....LTGAGEGPGPKPLSVAGADP 329

Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 1418010

Maximum DB seq length: 2000000000

```
Post-processing: Minimum Match 0%
                  Maximum Match 200%
                  Listing first 45 summaries
```

Database : Published Applications\_AA:\*

1:	/cgm2_6/prodataa1/pubppa/us00_PUBCOMB.dep.*
2:	/cgm2_6/prodataa1/pubppa/PCT_NEW_PUB.dep.*
3:	/cgm2_6/prodataa1/pubppa/us06_NEW_PUB.dep.*
4:	/cgm2_6/prodataa1/pubppa/us06_PUBCOMB.dep.*
5:	/cgm2_6/prodataa1/pubppa/us07_NEW_PUB.dep.*
6:	/cgm2_6/prodataa1/pubppa/PCTUS_PUBCOMB.dep.*
7:	/cgm2_6/prodataa1/pubppa/us08_NEW_PUB.dep.*
8:	/cgm2_6/prodataa1/pubppa/us08_PUBCOMB.dep.*
9:	/cgm2_6/prodataa1/pubppa/us09_PUBCOMB.dep.*
10:	/cgm2_6/prodataa1/pubppa/us09_PUBCOMB.dep
11:	/cgm2_6/prodataa1/pubppa/us09_PUBCOMB.dep
12:	/cgm2_6/prodataa1/pubppa/us10_NEW_PUB.dep
13:	/cgm2_6/prodataa1/pubppa/us10_PUBCOMB.dep
14:	/cgm2_6/prodataa1/pubppa/us10_PUBCOMB.dep
15:	/cgm2_6/prodataa1/pubppa/us10_PUBCOMB.dep
16:	/cgm2_6/prodataa1/pubppa/us10_PUBCOMB.dep
17:	/cgm2_6/prodataa1/pubppa/us10_NEW_PUB.dep
18:	/cgm2_6/prodataa1/pubppa/us11_NEW_PUB.dep
19:	/cgm2_6/prodataa1/pubppa/us60_NEW_PUB.dep
20:	/cgm2_6/prodataa1/pubppa/us60_PUBCOMB.dep

**Pred.** No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1729	100.0	329	13	US-10-037-660-4
2	1666	96.4	218	10	US-09-804-014A-40
3	1602	92.7	393	9	US-09-965-529-7
4	1602	92.7	353	10	US-09-965-680A-7
5	887.5	51.3	321	10	US-09-804-014A-39
6	887.5	51.3	351	9	US-09-965-529-1
7	887.5	51.3	351	10	US-09-804-014A-16
8	887.5	51.3	351	10	US-09-965-680A-1
9	887.5	51.3	351	10	US-10-341-434-10
10	874.5	50.6	312	10	US-09-804-014A-73
11	874.5	50.6	312	10	US-09-804-014A-74
12	766.5	44.3	463	13	US-10-037-660-13
13	744	43.0	452	16	US-10-408-765A-2385

14	620	35.9	399	15	US-10-094-749-1978	Sequence 1978, App
15	564	32.6	283	13	US-10-037-860-11	Sequence 11, App
16	441	25.5	195	13	US-10-037-860-7	Sequence 7, App
17	353.5	20.4	120	10	US-09-804-014A-41	Sequence 41, App
18	338.5	19.6	120	10	US-09-804-014A-42	Sequence 42, App
19	335.5	19.4	403	15	US-10-094-466-38	Sequence 38, App
20	332	19.2	402	17	US-10-959-539-26	Sequence 26, App
21	326	18.9	337	15	US-10-296-115-1208	Sequence 1208, App
22	304	17.6	204	14	US-10-029-386-13747	Sequence 33747, App
23	256.5	14.8	149	13	US-10-037-860-9	Sequence 9, App
24	246.5	14.3	116	9	US-09-864-761-34645	Sequence 34645, App
25	192	11.1	538	16	US-10-408-765A-2992	Sequence 2992, App
26	133	7.7	584	15	US-10-281-172-535	Sequence 355, App
27	133	7.7	584	15	US-10-221-278-555	Sequence 355, App
28	120.5	7.0	5445	14	US-10-339-079-455	Sequence 45, App
29	115.5	6.7	555	15	US-10-282-122A-49641	Sequence 49641, App
30	114.5	6.6	558	15	US-10-282-122A-50770	Sequence 50770, App
31	114	6.6	558	15	US-10-282-122A-65151	Sequence 65151, App
32	111	6.4	558	15	US-10-282-122A-65151	Sequence 66072, App
33	109	6.3	531	15	US-10-359-493-17979	Sequence 17979, App
34	107.5	6.2	526	15	US-10-282-122A-47973	Sequence 47973, App
35	106.5	6.2	503	9	US-09-738-626-5485	Sequence 5485, App
36	104.5	6.0	556	15	US-10-282-122A-58461	Sequence 58461, App
37	103	6.0	935	14	US-10-080-608A-25	Sequence 25, App
38	103	6.0	935	15	US-10-370-685-114	Sequence 114, App
39	103	6.0	955	16	US-10-437-963-144559	Sequence 144559, App
40	101.5	5.9	1455	15	US-10-425-114-10904	Sequence 50904, App
41	99.5	5.8	1597	16	US-10-408-765A-1013	Sequence 1013, App
42	99.5	5.8	1545	14	US-10-339-079-111	Sequence 11, App
43	98	5.7	553	15	US-10-282-122A-6212	Sequence 6212, App
44	98	5.7	1009	15	US-10-607-621-2	Sequence 2, App
45	98	5.7	1276	14	US-10-156-761-10509	Sequence 10509, App

## ALIGNMENTS

```

RESULT 1
US-10-037-860-4
; Sequence 4, Application US/10037860
; Publication NO. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037.860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRP
; ORGANISM: homo sapiens
US-10-037-860-4

Query Match          100.0%; Score 1729; DB 13; Length 329;
Best Local Similarity 100.0%; Pred. No. 1, Ee -160;
Matches 329 / Conservative 0 / Mismatches 0 / Indels 0 / Gaps 0

Db      Qy
1 MAMTLEEDKCRGMDVNSORTLLVWGIPVNCDEAEIETELIAAMPQVSRYMIGRWFRREEN 60
1 MAMTLEEDKCRGMDVNSORTLLVWGIPVNCDEAEIETELIAAMPQVSRYMIGRWFRREEN 60
61 AKAALETLELGAADVAAIAPREMPKGQGWKVLFEKPTSDAEFLERHLIFLARREGTVQDVA 120
61 AKRAALELTLGADVAAIAPREMPKGQGWKVLFEKPTSDAEFLERHLIFLARREGTVQDVA 120
121 RVLGRNPFTPTPGEMPAEMLIANYILDNVITQPLVESIWYKRLTLFSGKGHPRANKGNFDPM 180

```



```
Db 121 RVAGFQNPPTPGPEMBAEMLNYILDNVIQPLVESIWKRLTLFSGKGRPARNGFDPW 180
Qy 181 LEHTNEVLEEMQVSDVEKRRRLMESLRGPADVIRILKSNPAITTAECCLKALEOVFGSV 240
Db 181 LEHTNEVLEEMQVSDVEKRRRLMESLRGPADVIRILKSNPAITTAECCLKALEOVFGSV 240
Qy 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIDKDNVNOARLEQVIGANH 300
Db 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIDKDNVNOARLEQVIGANH 300
Qy 301 SGAIRROLMTGAGEGPGPPLSVAGADP 329
Db 301 SGAIRROLMTGAGEGPGPPLSVAGADP 329

RESULT 2
US-09-804-014A-40
; Sequence 40, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Verneet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinketsu, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721.US
; CURRENT APPLICATION NUMBER: US/09/804, 014A
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188, 316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188, 277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189, 139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189, 140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190, 401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190, 231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (20)
; OTHER INFORMATION: wherein Xaa is any amino acid as defined in the
; OTHER INFORMATION: specification
US-09-804-014A-40

Query Match 96.4%; Score 1666; DB 10; Length 318;
Best Local Similarity 99.7%; Pred. No. 2,7e-154;
Matches 317; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 181 LEHTNEVLEEMQVSDVEKRRRLMESLRGPADVIRILKSNPAITTAECCLKALEOVFGSV 240
Db 181 LEHTNEVLEEMQVSDVEKRRRLMESLRGPADVIRILKSNPAITTAECCLKALEOVFGSV 240
Qy 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIDKDNVNOARLEQVIGANH 300
Db 241 ESSRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIDKDNVNOARLEQVIGANH 300
Qy 301 SGAIRROLMTGAGEGPG 318
Db 301 SGAIRROLMTGAGEGPG 318

RESULT 3
US-09-965-529-7
; Sequence 7, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965, 529
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149, 641; 60/164, 203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1
US-09-965-529-7

Query Match 92.7%; Score 1602; DB 9; Length 353;
Best Local Similarity 96.6%; Pred. No. 5.8e-148;
Matches 308; Conservative 1; Mismatches 10; Indels 0; Gaps 0;
```



## RESULT 4

US-09-969-680A-7

Sequence 7, Application US/09969680A  
Publication No. US20030124649A1

## GENERAL INFORMATION:

APPLICANT: LAL, Preeti; YUE, Henry  
APPLICANT: TANG, Y. Tom; BANDMAN, Olga  
APPLICANT: BURFORD, Neil; AZIMZAI, Yalda  
APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.  
APPLICANT: PATTERSON, Chandra

TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
FILE REFERENCE: PF-0731-1 USA

CURRENT APPLICATION NUMBER: US/09/969,680A  
CURRENT FILING DATE: 2001-10-02

PRIOR APPLICATION NUMBER: US00/22315  
PRIOR FILING DATE: 2000-08-14

PRIOR APPLICATION NUMBER: 60/149,641  
PRIOR FILING DATE: 1999-08-17

PRIOR APPLICATION NUMBER: 60/164,203  
PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 74  
SOFTWARE: PERL Program

SEQ ID NO 7  
LENGTH: 353

TYPE: PRT  
ORGANISM: Homo sapiens

FEATURE:  
NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1  
US-09-969-680A-7

Query Match Best Local Similarity 92.7%; Score 1602; DB 10; Length 353;  
Matches 308; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

```

QY 1 MAMTLLEDMCRGMDVNSQRTLLVWGI PVNCD EAEIETLQAMPOVS YMLGRMPFREEN 60
DB 1 MAMTLLEDMCRGMDVNSQRTLLVWGI PVNCD EAEIETLQAMPOVS YMLGRMPFREEN 60
QY 61 ARAALLETGADVAAI PREMPCKG GVMVLPFPPTSDAEFLERLTLFLARSGMTVODVA 120
DB 61 ARAALLETGADVAAI PREMPCKG GVMVLPFPPTSDAEFLERLTLFLARSGMTVODVA 120
QY 121 RVLGFQNPPTPGPEPAEMLYI LDNVIQPLVESI WYKRLTLFSGKGHPRA MGNFDPW 180
DB 121 RVLGFQNPPTPGPEPAEMLYI LDNVIQPLVESI WYKRLTLFSGKGHPRA MGNFDPW 180
QY 181 LEHTNEVLEEMQVSDVEKRRRLMESLRGPADVI RILKSNNPATTTAECLKALEQVFGSV 240
DB 181 LEHTNEVLEEMQVSDVEKRRRLMESLRGPADVI RILKSNNPATTTAECLKALEQVFGSV 240
QY 241 ESSRDQIKFLNTYONPGKLSAYVIRLEP LLOKVVEKGAIDKDNVNOARLEQVLAGNH 300
DB 241 ESSRDQIKFLNTYONPGKLSAYVIRLEP LLOKVVEKGAIDKDNVNOARLEQVLAGNH 300
QY 301 SGAIRRQLWLTGAGEGPGP 319
DB 301 SGAIRRQLWLTGAGEGPA 319

```

## RESULT 5

US-09-804-014A-39

Sequence 39, Application US/09804014A  
Publication No. US20030064489A1

## GENERAL INFORMATION:

APPLICANT: LI, Li  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Vernet, Corine  
APPLICANT: Fernandez, Elma  
APPLICANT: Shimkets, Richard  
APPLICANT: Spaderne, Steven  
APPLICANT: Majumder, Kumud  
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same

FILE REFERENCE: 15966-721 US

CURRENT APPLICATION NUMBER: US/09/804,014A  
CURRENT FILING DATE: 2002-04-24

PRIOR APPLICATION NUMBER: 60/188,316  
PRIOR FILING DATE: 2000-03-10

PRIOR APPLICATION NUMBER: 60/188,277  
PRIOR FILING DATE: 2000-03-10

PRIOR APPLICATION NUMBER: 60/189,139  
PRIOR FILING DATE: 2000-03-14

PRIOR APPLICATION NUMBER: 60/189,140  
PRIOR FILING DATE: 2000-03-14

PRIOR APPLICATION NUMBER: 60/190,401  
PRIOR FILING DATE: 2000-03-17

PRIOR APPLICATION NUMBER: 60/190,231  
PRIOR FILING DATE: 2000-03-17

NUMBER OF SEQ ID NOS: 75  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 39  
LENGTH: 321

TYPE: PRT  
ORGANISM: Homo sapiens

US-09-804-014A-39

Query Match Best Local Similarity 51.3%; Score 887.5; DB 10; Length 321;  
Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;

```

QY 1 MAMTLLEDMCRGMDVNSQRTLLVWGI PVNCD EAEIETLQAMPOVS YMLGRMPFRE 59
DB 1 MTLRLLEDMCRGMDNPPKALLIAGISOSCVAEIEELQAGLADLGRYLLGRFRDE 60
QY 60 NAKAALLETGADVAAI PREMPCKG GVMVLPFPPTSDAEFLERLTLFLARSGMTVODV 119
DB 61 NKAVALVGLTAEIETSHALVPKEIPGKGIMRVIFKPPDNDNFLSRINFEFLAGEGTVSEL 120
QY 120 ARVGFQNPPTPGPEPAEMLYI LDNVIQPLVESI WYKRLTLFSGKGHPRA MGNFDPW 175
DB 121 SPALHEHGSQDPECGMIPEMAFPLAOLAEALQPALQCLTKLRVFSGRESPEPGE 179
QY 176 NEDPMLLEHTNEVLEEMQVSDVEKRRRLMESLRGPADVI RILKSNNPATTTAECLKALEQ 235
DB 180 EFGRMFTITQIKAKQVDPVEKRRRLMESLRGPADVI RILKSNNPATTTAECLKALEQ 239
QY 236 VEGSVESRDQIKFLNTYONPGKLSAYVIRLEP LLOKVVEKGAIDKDNVNOARLEQVI 295
DB 240 VFGVTDNPRELQVLTLYTQKDEKLSAYVIRLEP LLOKVQGAIERDAVNOARLDQVI 299
QY 296 AGAHSAGAIRRQLWLTGAGEGPG 318
DB 300 AGAVHK-TIRRELINPEDGPAFG 321

```

## RESULT 6

US-09-965-529-1

Sequence 1, Application US/09965529  
Publication No. US20020182671A1

## GENERAL INFORMATION:

APPLICANT: LAL, Preeti  
APPLICANT: YUE, Henry  
APPLICANT: TANG, Y. Tom  
APPLICANT: BANDMAN, Olga  
APPLICANT: BURFORD, Neil  
APPLICANT: AZIMZAI, Yalda  
APPLICANT: BAUGHN, Mariah R.  
APPLICANT: LU, Dyung Aina M.  
APPLICANT: PATTERSON, Chandra  
TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
FILE REFERENCE: PF-0731 USA  
CURRENT APPLICATION NUMBER: US/09/965,529  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315  
PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14  
NUMBER OF SEQ ID NOS: 74



```

SOFTWARE: PERL Program
SEQ ID NO 1
LENGTH: 351
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1
US-09-965-523-1

```

```

Query Match          51.3%; Score 887.5; DB 9; Length 351;
Best Local Similarity 55.4%; Pred. No. 5.5e-78;
Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;

```

```

QY 1 MAMTLLEDMCRGMDVNSORTLLVWGIPVNCDEAEIEETLQAM-PQVSRYMLGRMFRRBE 59
DB 1 MTLRLLEDMCRGMDNPPKALLIAGISQSCVAIEEALQGLAPLGEYRLILGRMFRRDE 60
QY 60 NAKAALLELTGAVDYAAIPREMPKGGVWKVLFKPPPTSDAEFLERLHLFLAREGTTVDV 119
DB 61 NRKVALVGLTAEISHALVPKEIPGKGIMRWIFKPPDPDNTFLSLNEFLAGEGTVGEL 120
QY 120 ARVLGFQNT--PTGG--PEMPAEMLNYILDVIOPLVESIYKRLTFSKGHPRAWRG 175
DB 121 SRALGHEGNSLDPEQGMPEMAAPMLAOLAE-ALQPALQCLKXKRLRVFSGRESPEPGE 179
QY 176 NFDPMLEHTNEVLEEMQVSDVEKRRRLMESLRGPADVIIRILKSNPAITTAECTKALEO 235
DB 180 EFGRMWFHTTQMIKAMQVDPVEKRRRLLESRLGPALDVIIRVLKINNPLITVDECLQALBE 239
QY 236 VFGSVSSRDQIKRLNTYQNGPEKLSAVYVIRLEPLLQKVEKGAIDKDNVQARLEQVI 295
DB 240 VFGVTNPNRELQVKYLTQYQDEEKL SAYVLRLEPLLQKLVORGAIERDAVNQARLDQVI 299
QY 296 AGANHSGAIRQMLTGAGEGPG 318
DB 300 AGAVHK-TIRRELINLPEDGAPG 321

```

## RESULT 7

US-09-804-014A-16

```

Sequence 16, Application US/09804014A
Publication No. US20030064489A1
GENERAL INFORMATION:

```

```

APPLICANT: Li, Li
APPLICANT: Padigaru, Muralidhara
APPLICANT: Verneet, Corine
APPLICANT: Fernandez, Elma
APPLICANT: Shimkete, Richard
APPLICANT: Spaderma, Steven
APPLICANT: Majumder, Kumud
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-721 US
CURRENT APPLICATION NUMBER: US/09/804, 014A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/188, 316
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/188, 277
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/189, 139
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/189, 140
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/190, 401
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/190, 231
PRIOR FILING DATE: 2000-03-17
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.1

```

```

SEQ ID NO 16
LENGTH: 351
TYPE: PRT
ORGANISM: Homo sapiens

```

US-09-804-014A-16

```

Query Match          51.3%; Score 887.5; DB 10; Length 351;
Best Local Similarity 55.4%; Pred. No. 5.5e-78;
Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;

```

```

QY 1 MAMTLLEDMCRGMDVNSORTLLVWGIPVNCDEAEIEETLQAM-PQVSRYMLGRMFRRBE 59
DB 1 MTLRLLEDMCRGMDNPPKALLIAGISQSCVAIEEALQGLAPLGEYRLILGRMFRRDE 60
QY 60 NAKAALLELTGAVDYAAIPREMPKGGVWKVLFKPPPTSDAEFLERLHLFLAREGTTVDV 119
DB 61 NRKVALVGLTAEISHALVPKEIPGKGIMRWIFKPPDPDNTFLSLNEFLAGEGTVGEL 120
QY 120 ARVLGFQNT--PTGG--PEMPAEMLNYILDVIOPLVESIYKRLTFSKGHPRAWRG 175
DB 121 SRALGHEGNSLDPEQGMPEMAAPMLAOLAE-ALQPALQCLKXKRLRVFSGRESPEPGE 179
QY 176 NFDPMLEHTNEVLEEMQVSDVEKRRRLMESLRGPADVIIRILKSNPAITTAECTKALEO 235
DB 180 EFGRMWFHTTQMIKAMQVDPVEKRRRLLESRLGPALDVIIRVLKINNPLITVDECLQALBE 239
QY 236 VFGSVSSRDQIKRLNTYQNGPEKLSAVYVIRLEPLLQKVEKGAIDKDNVQARLEQVI 295
DB 240 VFGVTNPNRELQVKYLTQYQDEEKL SAYVLRLEPLLQKLVORGAIERDAVNQARLDQVI 299
QY 296 AGANHSGAIRQMLTGAGEGPG 318
DB 300 AGAVHK-TIRRELINLPEDGAPG 321

```

## RESULT 8

US-09-969-680A-1

```

Sequence 1, Application US/09969680A
Publication No. US2003012469A1
GENERAL INFORMATION:

```

```

APPLICANT: LAL, Preeti; YUE, Henry
APPLICANT: TANG, Y. Tom; BANDMAN, Olga
APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
APPLICANT: PATTERSON, Chandra
TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
FILE REFERENCE: PF-0731-1 USA
CURRENT APPLICATION NUMBER: US/09/969, 680A
CURRENT FILING DATE: 2001-10-02
PRIOR APPLICATION NUMBER: US00/22315
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/149, 641
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/164, 203
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 74
SOFTWARE: PERL Program

```

```

SEQ ID NO 1
LENGTH: 351
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US2003012469A1 112301CD1
US-09-969-680A-1

```

```

Query Match          51.3%; Score 887.5; DB 10; Length 351;
Best Local Similarity 55.4%; Pred. No. 5.5e-78;
Matches 179; Conservative 53; Mismatches 84; Indels 7; Gaps 5;

```

```

QY 1 MAMTLLEDMCRGMDVNSORTLLVWGIPVNCDEAEIEETLQAM-PQVSRYMLGRMFRRBE 59
DB 1 MTLRLLEDMCRGMDNPPKALLIAGISQSCVAIEEALQGLAPLGEYRLILGRMFRRDE 60
QY 60 NAKAALLELTGAVDYAAIPREMPKGGVWKVLFKPPPTSDAEFLERLHLFLAREGTTVDV 119
DB 61 NRKVALVGLTAEISHALVPKEIPGKGIMRWIFKPPDPDNTFLSLNEFLAGEGTVGEL 120

```







TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
FILE REFERENCE: 15966-721 US  
CURRENT APPLICATION NUMBER: US/09/804,014A  
CURRENT FILING DATE: 2002-04-24  
PRIOR APPLICATION NUMBER: 60/188,316  
PRIOR FILING DATE: 2000-03-10  
PRIOR APPLICATION NUMBER: 60/188,277  
PRIOR FILING DATE: 2000-03-10  
PRIOR APPLICATION NUMBER: 60/189,139  
PRIOR FILING DATE: 2000-03-14  
PRIOR APPLICATION NUMBER: 60/189,140  
PRIOR FILING DATE: 2000-03-14  
PRIOR APPLICATION NUMBER: 60/190,401  
PRIOR FILING DATE: 2000-03-17  
PRIOR APPLICATION NUMBER: 60/190,231  
PRIOR FILING DATE: 2000-03-17  
NUMBER OF SEQ ID NOS: 75  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 74  
LENGTH: 312  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-804-014A-74

Query Match 50.6%; Score 874.5; DB 10; Length 312;  
Best Local Similarity 55.9%; Pred. No. 8.7e-77;  
Matches 175; Conservative 53; Mismatches 78; Indels 7; Gaps 5;

QY 1 MAMTLEEDMCRGMDVNSORTLLVWGI PVNCD EAEIEETLQAM-POVS YRM LGRMFWREE 59  
DB 1 MTLRLLEDWCRGMDNPRKALLIAGISQCSVAIEEALQAGLAFGEYRLLRGMRFRDE 60  
QY 60 NAKAALLEITGAVDYAALPREMPGKGWVKYLFKPTSDAEFLERLHLFLAREGTYVDY 119  
DB 61 NRRVAVLGTAEITSHLVPEKIPGKGIVRWIFKPPDPNTLSRLNEFLAEGMTVGL 120  
QY 120 ARVLGFONPT--PTPG--PEMPAEMLYLIDNVIOPLVESIWKYLLTFLSGKHPRAMWG 175  
DB 121 SRLGHENSLDEQGMIEPMAPMLAOLLE-ALOLALQCLKKLRVSGSGEPGRGE 179  
QY 176 NEDPMLEHTNEVLEWQSDVEKRRRLMESLRGPAADVIRILKSNPAITTAECLEKALFO 235  
DB 180 EFRNMEHTTQMIAKQVDPVEKRRRLLESRLGPAADVIRILKSNPAITTAECLEKALFO 239  
QY 236 VRSVSSRDQIKFLNTYONPEKLSAVYIRLEPLLOKVEKGAIDKDNVNOARLEQYIAG 295  
DB 240 VFCVTNPRLQVYKLTITQKDEKLSAYVLRLEPLLOKVEKGAIDKDNVNOARLEQYI 299  
QY 296 AGAHSGAIRROL 308  
DB 300 AGAVHK-TIRREL 311

RESULT 12  
US-10-037-860-13  
Sequence 13, Application US/10037860  
Publication No. US20020123114A1  
GENERAL INFORMATION:  
APPLICANT: Jerome B. Posner  
APPLICANT: Myrna R. Rosengfeld  
TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA  
TITLE OF INVENTION: ANTIBODIES  
FILE REFERENCE: 3581,1004-004  
CURRENT APPLICATION NUMBER: US/10/037,860  
CURRENT FILING DATE: 2001-01-04  
PRIOR APPLICATION NUMBER: 09/189,527  
PRIOR FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows, Version 4.0  
SEQ ID NO 13  
LENGTH: 463  
TYPE: PRT

ORGANISM: homo sapiens  
US-10-037-860-13

Query Match 44.3%; Score 766.5; DB 13; Length 463;  
Best Local Similarity 50.2%; Pred. No. 5.9e-66;  
Matches 157; Conservative 50; Mismatches 103; Indels 3; Gaps 2;

QY 1 MAMTLEEDMCRGMDVNSORTLLVWGI PVNCD EAEIEETLQAMPVS-YRM LGRMFWREE 59  
DB 1 MTLRLLEDWCRGMDNPRKALLIAGISQCSVAIEEALQAGLAFGEYRLLRGMRFRDE 60  
QY 60 NAKAALLEITGAVDYAALPREMPGKGWVKYLFKPTSDAEFLERLHLFLAREGTYVDY 119  
DB 61 NRRVAVLGTAEITSHLVPEKIPGKGIVRWIFKPPDPNTLSRLNEFLAEGMTVGL 120  
QY 120 ARVLGFONPTPGPEMPAEMLYN--IIDNVIOPLVESIWKYLLTFLSGKHPRAMGNF 177  
DB 121 NRRVAVLGTAEITSHLVPEKIPGKGIVRWIFKPPDPNTLSRLNEFLAEGMTVGL 180  
QY 178 DPMLEHTNEVLEWQSDVEKRRRLMESLRGPAADVIRILKSNPAITTAECLEKALFO 237  
DB 181 DPMLEHTNEVLEWQSDVEKRRRLMESLRGPAADVIRILKSNPAITTAECLEKALFO 240  
QY 238 GSVSSRDQIKFLNTYONPEKLSAVYIRLEPLLOKVEKGAIDKDNVNOARLEQYIAG 297  
DB 241 GPVESHKIAQVYLCRAYOAGEKYSFVLRLEPLLOKVEKGAIDKDNVNOARLEQYIAG 300  
QY 298 AGAHSGAIRROL 310  
DB 301 ATLPDKLRDKL 313

RESULT 13  
US-10-408-765A-2385  
Sequence 2385, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fathy, Boin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary M.  
APPLICANT: Wernock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
FILE REFERENCE: 660088,465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2385  
LENGTH: 452  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-408-765A-2385

Query Match 43.0%; Score 744; DB 16; Length 452;  
Best Local Similarity 46.0%; Pred. No. 9.1e-64;  
Matches 143; Conservative 64; Mismatches 100; Indels 4; Gaps 2;

QY 1 MAMTLEEDMCRGMDVNSORTLLVWGI PVNCD EAEIEETLQAM-POVS YRM LGRMFWREE 59  
DB 5 MTLRLLEDWCRGMDNPRKALLIAGISQCSVAIEEALQAGLAFGEYRLLRGMRFRDE 64  
QY 60 NAKAALLEITGAVDYAALPREMPGKGWVKYLFKPTSDAEFLERLHLFLAREGTYVDY 119  
DB 65 NAKAVFIELADVTNTTTPSHIPGKGWVYVFRANDDEFLSLNFTLFDGSGMTDV 124  
QY 120 ARVLGFONPTPGPEMPAEMLYN--IIDNVIOPLVESIWKYLLTFLSGKHPRAMGNF 179  
DB 125 AVALGCG---CSLPASLSLAEVWVQVRSPPLEBPESKSMYRKLKVSQYASPSGSETPED 181



QY 180 MLEHTNEVELEWQSDVEKRRRLMESLRGPADVIRILKSNPAITTAECTALKEVFGS 239  
182 MLEQVTEIMPWQSEVEKRRRLLESRLPALSMKVRLOANNDSITVEQCLALAKQIFED 241  
QY 240 VESSRDAQIKFLNTYON-DEKLSAVYIRLEPILQKVEGALDKONNOARLEQVAGAN 299  
DB 242 KEDFRASQRFLOTSPK-GEKVSFTLLRLEPILQKVAHKSPLSVSTDMIRLKHLLARVA 301  
QY 300 HSGAIRROLML 310  
DB 302 MTPALRGKLEL 312

RESULT 14  
US-10-094-749-1978

/ Sequence 1978, Application US/10094749  
/ Publication No. US20030219741A1  
/ GENERAL INFORMATION:  
/ APPLICANT: ISOGAI, TAKAO  
/ APPLICANT: SUGIYAMA, TOMOYASU  
/ APPLICANT: OTSUKI, TETSUJI  
/ APPLICANT: MAKAMATSU, AI  
/ APPLICANT: SATO, HIROYUKI  
/ APPLICANT: ISHII, SHIZUKO  
/ APPLICANT: YAMAMOTO, JUN-ICHI  
/ APPLICANT: ISONO, YUUKO  
/ APPLICANT: HIO, YURI  
/ APPLICANT: OTSUKA, KAORU  
/ APPLICANT: NAGAI, KEIICHI  
/ APPLICANT: IRIE, RYOTARO  
/ APPLICANT: TAMECHIKA, ICHIRO  
/ APPLICANT: SEKI, NAOHITO  
/ APPLICANT: YOSHIKAWA, TSUTOMU  
/ APPLICANT: OTSUKA, MOTOTYUKI  
/ APPLICANT: NAGAHARI, KENJI  
/ APPLICANT: MASUHO, YASUHIKO  
/ TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA  
/ FILE REFERENCE: 084335/0160  
/ CURRENT APPLICATION NUMBER: US/10/094, 749  
/ CURRENT FILING DATE: 2002-03-12  
/ PRIOR APPLICATION NUMBER: 60/350, 435  
/ PRIOR FILING DATE: 2002-01-24  
/ PRIOR APPLICATION NUMBER: JP 2001-328381  
/ PRIOR FILING DATE: 2001-09-14  
/ NUMBER OF SEQ ID NOS: 3381  
/ SOFTWARE: PatentIn Ver. 2.1  
/ SEQ ID NO 1978  
/ LENGTH: 399  
/ TYPE: PRT  
/ ORGANISM: Homo sapiens  
/ US-10-094-749-1978

Query Match 35.9%; Score 620; DB 15; Length 399;  
Best Local Similarity 40.9%; Pred. No. 1.1e-51;  
Matches 137; Conservative 64; Mismatches 106; Indels 28; Gaps 6;

QY 1 MANTLEDWCRGDNVSQRTLVVGIPIVNCDEAIEETLOAAN-POVSYRMLGRMWRRE 59  
DB 1 MATVMIQDMKRMKGVNARGLLIGIPEDCDNAEPESLEAALRPMGHFVLGKAPREED 60  
QY 60 NAAVALIELTGAVDYAIIPRMFGKGVKYLEKPTSDAEF--LERLHFLAREGTYO 117  
DB 61 NATPAALVELDREYVALVPRREIPGTGPMNVFVPRCSGEEFLGLGRVHFHPRQEQMVE 120  
QY 118 DVARVIGFQNPRTPGEMPAEMLNTY--LDNVIOPLVESIWYKRLTLFSGKGHPRAMRG 175  
DB 121 SVAGALG-----YGLRVYCWLRISIGAVQRPWEAVNRCSLGVSGRQDPARGE 169  
QY 176 NPDWLEHTNEVELEWQ-VSDVEKRRRLMESLRGPADVIRILKSNPAITTAECTALKE 234  
DB 170 SFEVWLHHTTEMLHVWGVSERERRRLLEGLGTALQLVHALAENPARTAODCLAALA 229  
QY 235 QVFGSVSSRDAQIKFLNTYON-DEKLSAVYIRLEPILQKVEGALDKONNOARLEQV 294

DB 230 QVFGSNEQOATIRVCLTAQOQSGERLSAFVRLVLEVLQKMEKALRAGADRVRLOM 289  
QY 295 IAGANHSGAIRROLMLTGAEGCGPKPLSVAGADP 329  
DB 290 LTRALHTPELDEAL-----RKLRMAGRSP 313

RESULT 15  
US-10-037-860-11

/ Sequence 11, Application US/10037860  
/ Publication No. US20020123114A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Jerome B. Posner  
/ APPLICANT: Joseph O. Dalmou  
/ APPLICANT: Myrna R. Rosenfeld  
/ TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA  
/ TITLE OF INVENTION: ANTIBODIES  
/ FILE REFERENCE: 2581.1004-004  
/ CURRENT APPLICATION NUMBER: US/10/037, 860  
/ CURRENT FILING DATE: 2001-01-04  
/ PRIOR APPLICATION NUMBER: 09/189, 527  
/ PRIOR FILING DATE: 1998-11-10  
/ NUMBER OF SEQ ID NOS: 14  
/ SOFTWARE: FastSeq for Windows Version 4.0  
/ SEQ ID NO 11  
/ LENGTH: 283  
/ TYPE: PRT  
/ ORGANISM: homo sapiens  
/ US-10-037-860-11

Query Match 32.6%; Score 564; DB 13; Length 283;  
Best Local Similarity 47.0%; Pred. No. 1.9e-46;  
Matches 117; Conservative 47; Mismatches 73; Indels 12; Gaps 4;

QY 83 GKGWVKVLEKPTSDAEFLERLHFLAREGTYQDVAVLGFQNPPTP---GPEMPA 138  
DB 3 GKGWVKVLEKPTSDAEFLERLHFLAREGTYQDVAVLGFQNPPTP---GPEMPA 62  
QY 139 EMLNYILDNVIOPLVESIWYKRLTLFSGKGHPRAMGNFDPWLEHTNEVELEWQSDVEK 198  
DB 63 HILGQAMHAPQLL-PHRYKRLRVFSGAVAPAPESSEVWLBOATEIVKEMVPTBAEK 121  
QY 199 RRLMESLRGPADVIRILKSNPAITTAECTALKEVFGVSERDAQIKFLNTYONPG 258  
DB 122 KRLAESLRLGPAIDMHIQADNPISVEECLEAFQVFGSLESRRTRAQVRLKTYOEEG 181  
QY 259 EKLASVYIRLEPILQKVEGALDKONNOARLEQVAGANHSGAIRROLML--TGAGE 315  
DB 182 EKVSAVYIRLEPILQKVEGALDKONNOARLEQVAGANHSGAIRROLML--TGAGE 237  
QY 316 GPGKPLSV 324  
DB 238 GPPPSLEL 246

Search completed: April 8, 2005, 13:35:12  
Job time : 75.4975 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 8, 2005, 11:48:54 ; Search time 14.9789 Seconds  
(without alignments)  
971.808 Million cell updates/sec

Title: US-10-037-860-7

Perfect score: 996  
Sequence: 1 PLALLEDWCRIINVSDEQSL.....EESFEVWLEQATEIVKEMP 195

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74639064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Issued Patents AA:  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	996	100.0	195	US-09-189-527-7	Sequence 7, Appli
2	443.5	44.5	462	US-09-189-527-13	Sequence 13, Appli
3	441	44.3	329	US-09-189-527-4	Sequence 4, Appli
4	87.5	8.8	311	US-08-318-837-9	Sequence 9, Appli
5	87.5	8.8	3838	US-09-949-016-10853	Sequence 10853, A
6	84.5	8.5	520	US-09-792-024-121	Sequence 121, App
7	84.5	8.5	527	US-09-248-796A-15917	Sequence 15917, A
8	84	8.4	612	US-09-902-540-13545	Sequence 13545, A
9	82.5	8.3	547	US-09-134-000C-5974	Sequence 5974, Ap
10	81.5	8.2	285	US-09-248-796A-16474	Sequence 16474, A
11	81.5	8.2	580	US-09-328-352-7656	Sequence 7656, Ap
12	81	8.1	1442	US-09-902-540-9777	Sequence 9777, Ap
13	80.5	8.1	136	US-09-352-991A-31474	Sequence 31474, A
14	80.5	8.1	270	US-08-852-743-5	Sequence 5, Appli
15	80.5	8.1	270	US-09-185-370-5	Sequence 5, Appli
16	80.5	8.1	385	US-09-971-020A-3	Sequence 3, Appli
17	80.5	8.1	487	US-08-712-709-8	Sequence 8, Appli
18	80.5	8.1	487	US-09-111-444-8	Sequence 8, Appli
19	80.5	8.1	487	US-09-541-228-8	Sequence 8, Appli
20	80	8.0	375	US-09-328-352-7783	Sequence 7783, Ap
21	80	8.0	430	US-09-949-016-10720	Sequence 10720, A
22	79	7.9	258	US-09-252-991A-24184	Sequence 24184, A
23	78.5	7.9	316	US-08-403-634-4	Sequence 4, Appli
24	78.5	7.9	316	US-08-403-634-31	Sequence 31, Appli
25	78.5	7.9	316	US-08-913-441B-4	Sequence 4, Appli
26	78.5	7.9	316	US-08-913-441B-31	Sequence 31, Appli
27	78.5	7.9	316	US-09-571-985C-4	Sequence 4, Appli

28	78.5	7.9	316	US-09-571-985C-31	Sequence 31, Appli
29	78.5	7.9	445	US-09-457-046B-52	Sequence 52, Appli
30	78.5	7.9	445	US-09-866-570B-52	Sequence 52, Appli
31	78.5	7.9	745	US-08-136-277-2	Sequence 2, Appli
32	78.5	7.9	745	US-08-479-403-2	Sequence 2, Appli
33	78.5	7.9	745	US-08-835-734-2	Sequence 2, Appli
34	77.5	7.8	1657	US-08-287-959-1	Sequence 1, Appli
35	77.5	7.8	1657	US-09-949-016-6427	Sequence 6427, Ap
36	77.5	7.8	1678	US-09-949-016-9445	Sequence 9445, Ap
37	77.5	7.8	1805	US-07-853-913-2	Sequence 2, Appli
38	77	7.7	473	US-09-252-991A-29636	Sequence 29636, A
39	77	7.7	542	US-09-489-847-323	Sequence 323, App
40	77	7.7	910	US-09-902-540-10432	Sequence 10432, A
41	76	7.6	248	US-09-489-039A-12849	Sequence 12849, A
42	76	7.6	759	US-09-949-016-10724	Sequence 10724, A
43	76	7.6	759	US-09-252-991A-30106	Sequence 30106, A
44	75.5	7.6	475	US-09-370-838-193	Sequence 193, App
45	75.5	7.6	475	US-09-854-133-193	Sequence 193, App

ALIGNMENTS

RESULT 1  
US-09-189-527-7  
; Sequence 7, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Joseph O. Dalman  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; FILE REFERENCE: SUG98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A  
; CURRENT FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 195  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-189-527-7

Query Match	Score	DB 3	Length
Best Local Similarity	100.0%	Pred. No. 1	98-98
Matches: 195; Conservative	0;	Mismatches	0;
Indels	0;	Gaps	0;
QY	1	PLALLEDWCRIINVSDEQSLMTGTIPADFEAEIOEVLQETLSIGRRYLKIFRKQEN	60
DB	1	PLALLEDWCRIINVSDEQSLMTGTIPADFEAEIOEVLQETLSIGRRYLKIFRKQEN	60
QY	61	ANAVLLELEPTDVSAISEVQKGVKVIKTPNOSTERLELNTFLREGQTVSGMF	120
DB	61	ANAVLLELEPTDVSAISEVQKGVKVIKTPNOSTERLELNTFLREGQTVSGMF	120
QY	121	RALGGEALSPATVPCISPELLAHLGQAMAAPOPLPMRYKLVFSGSAPVAPESBSF	180
DB	121	RALGGEALSPATVPCISPELLAHLGQAMAAPOPLPMRYKLVFSGSAPVAPESBSF	180
QY	181	EVMLEQATEIVKEMP 195	
DB	181	EVMLEQATEIVKEMP 195	
RESULT 2	US-09-189-527-13	Application US/09189527A	
Patent No. 6387639			
GENERAL INFORMATION:			
APPLICANT: Jerome B. Posner			
APPLICANT: Joseph O. Dalman			
APPLICANT: Myrna R. Rosenfeld			







```

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10853
; LENGTH: 3838
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10853

```

```

Query Match      8.8%; Score 87.5; DB 4; Length 3838;
Best Local Similarity 24.0%; Pred. No. 22;
Matches 50; Conservative 28; Mismatches 71; Indels 59; Gaps 9;

```

```

Qy 20 LMTGIPADFEAEIOEVLQETKSLGR-----YRLIGKIFRQENNAVL 66
Db 859 LCVNIDQDFLDYHIOPTVAELMQLMRTLRNPADSIHVAVRGKF---GGSNRKWL 914
Qy 67 ELLEPTDVAIPSEVOGKGWVKVFKTPNDETFLE---RNLLEKEGOT----- 115
Db 915 K--SQCKLHYVTVVQ-----PSITVESDCASQLPWEKALIFALDCLKSA 961
Qy 116 -VSGMFRALGQALSPATVPCISPELLAHLGQAMAH-----APOLLPMRYKRLRVF 167
Db 962 NTEPYRQAMEVICPLVAMMSLEDNKGALYQLAHNPTEKTIPTVILISHRYK----- 1016
Qy 168 SGSAPAPBESFEVWLQON--TEIVKE 193
Db 1017 ---ADTTPARKTFEQALGAFMSAVIKD 1041

```

```

RESULT 6
US-09-792-024-121
; Sequence 121, Application US/09/792024
; Patent No. 6783985
; GENERAL INFORMATION:
; APPLICANT: Roemer, Terry
; APPLICANT: Jiang, Bo
; APPLICANT: Boone, Charles
; APPLICANT: Buebey, Howard
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug
; FILE REFERENCE: 10182-004-999
; CURRENT APPLICATION NUMBER: US/09/792,024
; CURRENT FILING DATE: 2001-02-20
; NUMBER OF SEQ ID NOS: 490
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-792-024-121

```

```

Query Match      8.5%; Score 84.5; DB 4; Length 520;
Best Local Similarity 23.1%; Pred. No. 2.5;
Matches 51; Conservative 39; Mismatches 78; Indels 53; Gaps 11;

```

```

Qy 7 DWCRIMSVDEQKSLMTVG-IP-----ADFEAEIOEVLQETKSLGRYRLIGKIFRK 57
Db 241 DYTTRSVDEKCS--ITGMIPSSITRKIAEVMVYANFNSVBEKSRNVELKFGKIYDK 298
Qy 58 QENANAVLELED---TDVSAIPSEVOGKGWVKVIFTPNDETFLERLNLFLE--KE 112

```

```

Db 299 R-SGNRIDLVNTVCITFDHSSVFEDMVEEVANKI-----TKFLDELEKSFQEGKK 350
Qy 113 GQTVSGM-----FRALGOEA-----LSPATVPCISPELLAHLGQAMAH 152
Db 351 GRKFKTLESNDTDSFYQGRGGEHPKRIKRVTKNDLSPRLVALQKERVADL-----YIHN 406
Qy 153 PQLIPMKRYKLRVFGSAPAPBESFEVWLQATEIVKE 193
Db 407 PGSIF-----DLRLMSLSLEIPVQGNIESITTKKPEVARE 442

```

```

RESULT 7
US-09-248-796A-15917
; Sequence 15917, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICA
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 15917
; LENGTH: 527
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-15917

```

```

Query Match      8.5%; Score 84.5; DB 4; Length 527;
Best Local Similarity 23.1%; Pred. No. 2.5;
Matches 51; Conservative 39; Mismatches 78; Indels 53; Gaps 11;

```

```

Qy 7 DWCRIMSVDEQKSLMTVG-IP-----ADFEAEIOEVLQETKSLGRYRLIGKIFRK 57
Db 248 DYTTRSVDEKCS--ITGMIPSSITRKIAEVMVYANFNSVBEKSRNVELKFGKIYDK 305
Qy 58 QENANAVLELED---TDVSAIPSEVOGKGWVKVFKTPNDETFLERLNLFLE--KE 112
Db 306 R-SGNRIDLVNTVCITFDHSSVFEDMVEEVANKI-----TKFLDELEKSFQEGKK 357
Qy 113 GQTVSGM-----FRALGOEA-----LSPATVPCISPELLAHLGQAMAH 152
Db 358 GRKFKTLESNDTDSFYQGRGGEHPKRIKRVTKNDLSPRLVALQKERVADL-----YIHN 413
Qy 153 PQLIPMKRYKLRVFGSAPAPBESFEVWLQATEIVKE 193
Db 414 PGSIF-----DLRLMSLSLEIPVQGNIESITTKKPEVARE 449

```

```

RESULT 8
US-09-902-540-13545
; Sequence 13545, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(115849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 13545
; LENGTH: 612
; TYPE: PRT

```

```

Query Match      8.5%; Score 84.5; DB 4; Length 612;
Best Local Similarity 23.1%; Pred. No. 2.5;
Matches 51; Conservative 39; Mismatches 78; Indels 53; Gaps 11;

```



ORGANISM: Myxococcus xanthus  
US-09-902-540-13545

Query Match 8.4%; Score 84; DB 4; Length 612;  
Best Local Similarity 23.9%; Pred. No. 3.6;  
Matches 53; Conservative 31; Mismatches 64; Indels 74; Gaps 13;

QY 30 EBAEIOEVLOE-----TLKSLGRYRLGKIFRKE-NANAV--LLELED--- 71  
DB 297 ELGFEAVYRQYDPVDAVALVREDTQGRRLVGIVVQAAELDASLRSFMERLPDHLV 356  
QY 72 -----TVSAIPSEVQKGVWKVIFETPNODTE-----FILE 103  
DB 357 PAFVALDALPLSPSGKVDPRALPAPDAARGNAKV-FTEPRTEAEKALALMTQVLGVE 415  
QY 104 RLNL-----FLEKSGOTVSGM-----FRAIGQEAISPATVPCISPELLAHLG----- 146  
DB 416 RVSLDHNFELGDSLTGQIVSRAGLGL-LEPML--FERQTLVELAAAAAGTAKAGT 472  
QY 147 --QMAHAPQPLPMRYRKLIVFSGS-AVAPAEESFEVWLE 165  
DB 473 AEGGLVEGVPILPMQ---RIFPEEMALPQHNYNLAAVLE 510

RESULT 9  
US-09-134-000C-5974

Sequence 5974, Application US/09134000C  
Patent No. 6617156  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
FILE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 032796-032  
CURRENT APPLICATION NUMBER: US/09/134,000C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/055,778  
PRIOR FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 6812  
SOFTWARE: Patent version 3.1  
SEQ ID NO 5974  
LENGTH: 547  
TYPE: PRT  
ORGANISM: Enterococcus faecalis  
US-09-134-000C-5974

Query Match 8.3%; Score 82.5; DB 4; Length 547;  
Best Local Similarity 22.0%; Pred. No. 4.4;  
Matches 44; Conservative 38; Mismatches 65; Indels 53; Gaps 9;

QY 5 LEDM-CRIMSYDEOKSLMVTGI--PAD-----FEEAE-----IOEVLQETLSLGRY 48  
DB 310 LELMKRYRLJNSDYQLAVYGVTKENETHIRYQQAEGQLFQWLKEQLPEILPDVALF 369  
QY 49 RLIGK-----IRKQENANAVLLELEDTVSAIPSEVO-GGQGVWKVIFETPNODTEFL 102  
DB 370 KKNQOKSLIFQSKKNDLMLQNLAERLQALPTTIFALGANYENLEDLPNSYIEAS 429  
QY 103 ERLNLFLEKSGQVSGNFALGOEALSPATVPCISPELLAHL--LG-----Q 147  
DB 430 STEEAL-----HAKPXTVOLFHKKGLAGLFKKIGTDEVEYFCQQQLK 473  
QY 148 AMAHAPQPLPMRYRKLIVF 167  
DB 474 ELAVPEPTLQELRLKLVF 493

RESULT 10  
US-09-248-796A-16474  
Sequence 16474, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 16474  
LENGTH: 285  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-16474

Query Match 8.2%; Score 81.5; DB 4; Length 285;  
Best Local Similarity 21.0%; Pred. No. 2.1;  
Matches 51; Conservative 37; Mismatches 62; Indels 93; Gaps 11;

QY 26 PADFEAEIOEVLO-ETLKL-GRY-----RLGKIFRQENANAVLLELEDTD 73  
DB 32 PKGEKAAVGDILQSRTPKSIITGRFAPLKIQNSMQLTVSEDSFGNPAIVTVIE--P 89  
QY 74 VSAIPSEVQKGVWKVIFETPNOD-----TEFLRLNLF----- 109  
DB 90 VNADPSKIAS---YQVFEDAKAKDCAPVALQPSDLITFVTQAEVYLMAPLLDQGYV 145  
QY 110 -----EKKGOTVSGMFRA-----LGOEA-----LSP 130  
DB 146 VSPDEGKLTFTTGKSGCAVLNSIRATLTKSKITINKEADKAVVMGYSGLASGMA 205  
QY 131 ATVPICISPELLAHLQMAHAPQPLPMRYRKLIV-----FSGAVPAPEESF 180  
DB 206 ALQSYAVLESSLIGCLRWNYPNLLPHKQMLVLYVOELMQMPVGVGANVEYSES- 264  
QY 181 EVM 183  
DB 265 -IW 266

RESULT 11  
US-09-328-352-7656

Sequence 7656, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 7656  
LENGTH: 580  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-7656

Query Match 8.2%; Score 81.5; DB 4; Length 580;  
Best Local Similarity 25.2%; Pred. No. 6.1;  
Matches 36; Conservative 22; Mismatches 58; Indels 27; Gaps 5;

QY 30 EBAEIOEVLOETLSLGR-----YRL-LGKIFRQENANAVLLELEDTVS 75  
DB 248 EGTAEQVLEQPKDYTRALLYCRPQMSQRPYRLPVSDFWRQF--NNIIVE--QSEFVS 303  
QY 76 AIPSEVQKGVWKVIFETPNODTEFLERLNLFLKSGQTVSGM-----FRAIGQ 126  
DB 304 EIPKRGKLNDEDIILEVQDLKSKFSYRKLGRKEEFOAVKGVSPFLANGKTLGLVGS 363  
QY 127 ALSPATVPCISPELLAHLQAM 149  
DB 364 GSGKTYVGLLMRLHQASGQAL 386



## RESULT 12

US-09-902-540-9777  
 ; Sequence 9777, Application US/09902540  
 ; Patent No. 6833447  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Goldman, Barry S.  
 ; APPLICANT: Hinkle, Gregory J.  
 ; APPLICANT: Slater, Steven C.  
 ; APPLICANT: Wiegand, Roger C.  
 ; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
 ; FILE REFERENCE: 38-10(15849)H  
 ; CURRENT APPLICATION NUMBER: US/09/902,540  
 ; CURRENT FILING DATE: 2001-07-10  
 ; PRIOR APPLICATION NUMBER: 60/237,883  
 ; PRIOR FILING DATE: 2000-07-10  
 ; NUMBER OF SEQ ID NOS: 16825  
 ; SEQ ID NO 9777  
 ; LENGTH: 1442  
 ; TYPE: PRT  
 ; ORGANISM: Myxococcus xanthus  
 ; US-09-902-540-9777

## Query Match

Best Local Similarity 8.1%; Score 81; DB 4; Length 1442;  
 Pred. No. 26;  
 Matches 56; Conservative 32; Mismatches 69; Indels 72; Gaps 15;

QY 2 LALLBDMCR-----IMSVDKSLMTGT-----PADFEAEIOEVLUQET 41  
 DB 671 LALRKRCRSEFDELOAAATEDCILSLGQHSFPLAEIPDFLPHVVEVLQAVLQAP 730  
 QY 42 L-----KSLGRYRLG-KIFPKQENANAVILLELLEDDTDSAPSEV-----QGK 84  
 DB 731 IFSTRRWATRLALHRRMGKRVANLQRAAS-----EDLLASVFPQVCQONHGG 784  
 QY 85 GGVWVYIFKTPNOD--TEFLRLNLFLEKEGQTVSGMFRAL-----QGEALSPATVPCIS 137  
 DB 785 GDL-----ELPDHPLVTOTMD---CLREAMDVDGLREVLRCGMRCORIRLLARDVP--E 833  
 QY 138 PELLAHLGQAMAHAPPL-----LPMRYKLR-VPSGSAVVPPEESF 180  
 DB 834 PSLFAH---AMHS-QPYFFLDAPAEERRRVNVALRRAMPADVTAF 877

## RESULT 13

US-09-252-991A-31474  
 ; Sequence 31474, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 31474  
 ; LENGTH: 136  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 ; US-09-252-991A-31474

Query Match 8.1%; Score 80.5; DB 4; Length 136;  
 Best Local Similarity 21.6%; Pred. No. 0.92;  
 Matches 41; Conservative 24; Mismatches 48; Indels 77; Gaps 9;

QY 17 QKSLMTGTIP-----ADFEAEIOEVLUQETLSIGRLGKIFRKQENANAVILLELLED 71

DB 9 QHHIFRTGVKMSKLAEFREAE-----RKLOEQALLLEKXSD 46

QY 72 TDVSAIPSEVQKGGWVKVIFKTPNODTEFLRLNLFLEKEGQTVSGMFRALQGEALSPA 131

DB 47 SSL-----KOLEFVKRLQALMKRYGWTLLNITAILDPRK--TV 83

QY 132 TVPCISPELLAHLGQAMAHAPQPLPMRYKLRVFE---SGSAVPAP--EESSEFWLIE 185

DB 84 TV-----SAPQ---RRALAKVYKNBNGBVETKGNHKLKAWKE 123

QY 186 Q-ATEIVKEM 194

DB 124 QVSEFVSEW 133

## RESULT 14

US-08-852-743-5  
 ; Sequence 5, Application US/08852743  
 ; Patent No. 5830699  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Force, Thomas  
 ; APPLICANT: Kyriakis, John M.  
 ; APPLICANT: Bombo, Celia M.  
 ; APPLICANT: Bonventre, Joseph  
 ; TITLE OF INVENTION: SOK-1 AND METHODS OF USE  
 ; NUMBER OF SEQUENCES: 10  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fish & Richardson, P.C.  
 ; STREET: 225 Franklin Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: US  
 ; ZIP: 02110-2804  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: Windows95  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/852,743  
 ; FILING DATE: 7-MAY-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/016,774  
 ; FILING DATE: 7-MAY-1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Fraser, Janis K.  
 ; REGISTRATION NUMBER: 34,819  
 ; REFERENCE/DOCKET NUMBER: 00786/327001  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617/542-5070  
 ; TELEFAX: 617/542-8906  
 ; TELEX: 200154  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 270 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-852-743-5

Query Match 8.1%; Score 80.5; DB 2; Length 270;  
 Best Local Similarity 22.0%; Pred. No. 2.5;  
 Matches 44; Conservative 26; Mismatches 85; Indels 45; Gaps 6;

QY 2 LALLBDMCRINSVDE-----QKSLMTGTIPADFEAEIOEVLUQETLSIGRLGKIFR 56

DB 73 LWTWVEYCGAGSVSDILRLRNKTL-----TEDEIATITQSTLKGLEVLHPRKRIHR 123

QY 57 KOENANAVILLELLEDTDSAPSEVQKGGWVKVIFKTPNODTEFLRLNLFLEKEGQTV 116

DB 124 DIKAGNILL-----NTGSHAKLADFGVAGQGLDTIMAKRN-----TV 159



QY 117 SGMERALGOEALSPATVVCISPELLAHLLGQAMAHAPOP---LLPMRYRKLRVSGSAPP 173  
DB 160 IGTFFMAPEVIOEIGVNCVADIMSLGITAIEMAEGKRPADIDHPR-----AIFMIPITNP 215  
QY 174 APEESFEVMLEQATEIVKE 193  
DB 216 PPTFRKPELMSDNFTDFVXQ 235

## RESULT 15

US-09-185-370-5  
Sequence 5, Application US/09185370  
Patent No. 6093560  
GENERAL INFORMATION:  
APPLICANT: Force, Thomas  
APPLICANT: Kyriakis, John M.  
APPLICANT: Bombo, Celia M.  
APPLICANT: Bonventre, Joseph  
TITLE OF INVENTION: SOK-1 AND METHODS OF USE  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/185,370  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/852,743  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 00786/327001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 5  
SEQUENCE CHARACTERISTICS:  
LENGTH: 270 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-185-370-5

Query Match 8.1%; Score 80.5; DB 3; Length 270;  
Best Local Similarity 22.0%; Pred. No. 2.5;  
Matches 44; Conservative 26; Mismatches 85; Indels 45; Gaps 6;

QY 2 LALLDEMRIMSVE-----OKSLMVTGIPADFEAEFIQEVLOETIKSLGRYRLGKIFR 56  
DB 73 LMIWEXCGAGSVSDIRLNKRL-----TEDEIATILOSTLKGLEYLHFMRIHR 123  
QY 57 KOENNAVILLELLEDTVDIAIPSEVQKGVWVIFKTPNODTEFLERLNFLEKEGQTV 116  
DB 124 DIXAGNILL-----NTEGHAKLADFGVAGQITPMARN-----TV 159  
QY 117 SGMERALGOEALSPATVVCISPELLAHLLGQAMAHAPOP---LLPMRYRKLRVSGSAPP 173  
DB 160 IGTFFMAPEVIOEIGVNCVADIMSLGITAIEMAEGKRPADIDHPR-----AIFMIPITNP 215  
QY 174 APEESFEVMLEQATEIVKE 193

DB 216 PPTFRKPELMSDNFTDFVXQ 235  
Search completed: April 8, 2005, 12:52:55  
Job time : 16.9789 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compen Ltd.

OM protein - protein search, using sw model

Run on: April 8, 2005, 12:40:26 ; Search time 43.5624 Seconds

(without alignments)  
1466.133 Million cell updates/sec

Title: US-10-037-860-7

Sequence: 1 PLALBDMCRIMSVDECKSL.....EESFEWLEQATEIVKEMP 195

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	996	100.0	135	US-10-037-860-7	Sequence 7, Appli
2	604	60.6	120	US-09-804-014A-42	Sequence 42, Appli
3	593	59.5	283	US-10-037-860-11	Sequence 11, Appli
4	466	46.8	353	US-09-965-529-7	Sequence 7, Appli
5	466	46.8	353	US-09-969-680A-7	Sequence 7, Appli
6	462.5	46.4	463	US-10-037-860-13	Sequence 13, Appli
7	441	44.3	329	US-10-037-860-4	Sequence 4, Appli
8	440	44.2	318	US-09-804-014A-40	Sequence 40, Appli
9	436	43.8	312	US-09-804-014A-73	Sequence 73, Appli
10	436	43.8	312	US-09-804-014A-74	Sequence 74, Appli
11	436	43.8	321	US-09-804-014A-39	Sequence 39, Appli
12	436	43.8	351	US-09-965-529-1	Sequence 1, Appli
13	436	43.8	351	US-09-804-014A-16	Sequence 16, Appli

14	436	43.8	351	10	US-09-969-680A-1	Sequence 1, Appli
15	436	43.8	351	15	US-10-341-434-10	Sequence 10, Appli
16	434	43.6	452	16	US-10-408-765A-2385	Sequence 2385, Ap
17	345	34.6	399	15	US-10-094-749-1978	Sequence 33747, A
18	327.5	32.9	204	14	US-10-029-386-33747	Sequence 33747, A
19	306	30.7	120	10	US-09-804-014A-41	Sequence 41, Appli
20	270	27.1	116	9	US-09-864-761-34645	Sequence 34645, A
21	146	14.7	538	16	US-10-408-765A-2992	Sequence 2992, Ap
22	137.5	13.8	584	15	US-10-291-112-355	Sequence 355, App
23	137.5	13.8	584	15	US-10-221-278-355	Sequence 355, App
24	99.5	10.0	402	15	US-10-094-466-38	Sequence 38, Appli
25	97.5	9.8	402	17	US-10-959-539-26	Sequence 26, Appli
26	92.5	9.3	337	15	US-10-296-115-1208	Sequence 1208, Ap
27	89	8.9	342	13	US-10-001-857-201	Sequence 201, App
28	87.5	8.8	255	13	US-10-087-192-213	Sequence 213, App
29	87.5	8.8	311	10	US-09-727-100-1	Sequence 1, Appli
30	87.5	8.8	1357	15	US-10-295-027-1199	Sequence 1199, Ap
31	87.5	8.8	3859	16	US-10-408-765A-354	Sequence 354, App
32	86	8.6	1083	15	US-10-369-493-4443	Sequence 4443, App
33	86	8.6	1083	15	US-10-369-493-7202	Sequence 7202, Ap
34	86	8.6	1084	15	US-10-282-122A-49912	Sequence 49912, Ap
35	85.5	8.6	407	15	US-10-369-493-17903	Sequence 17903, A
36	84.5	8.5	520	9	US-09-213-678-2	Sequence 2, Appli
37	84.5	8.5	336	14	US-10-032-585-7035	Sequence 7035, Ap
38	84	8.4	1638	13	US-10-090-458-2	Sequence 17, Appli
39	84	8.4	1642	13	US-10-090-458-5	Sequence 2, Appli
40	84	8.4	1642	14	US-10-005-338B-5	Sequence 5, Appli
41	84	8.4	3613	14	US-10-156-761-10432	Sequence 10432, A
42	84	8.4	492	9	US-09-764-898-206	Sequence 206, App
43	83.5	8.4	408	15	US-10-425-114-55513	Sequence 55513, A
44	82	8.2	408	15	US-10-437-963-199553	Sequence 199553, A
45	82	8.2	547	16	US-10-437-963-199553	Sequence 199553, A

#### ALIGNMENTS

RESULT 1  
US-10-037-860-7  
; Sequence 7, Application US/10037860  
; Publication No. US20020123114A1  
; GENERAL INFORMATION:  
; APPLICANT: Josep B. Pognier  
; APPLICANT: Josep O. Dalmat  
; APPLICANT: Myrina R. Rosenfeld  
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA  
; TITLE OF INVENTION: ANTIBODIES  
; FILE REFERENCE: 2581.1004-004  
; CURRENT APPLICATION NUMBER: US/10/037,860  
; PRIOR FILING DATE: 2001-01-04  
; PRIOR APPLICATION NUMBER: 09/189,527  
; PRIOR FILING DATE: 1998-11-10  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 195  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-10-037-860-7

Query Match 100.0%; Score 996; DB 13; length 195;  
Best Local Similarity 100.0%; Pred. No. 4.2e-92;  
Matches 195; Mismatches 0; Indels 0; Gaps 0;

1 PLALBDMCRIMSVDECKSLMTGIPADFEAEIOEVLQETLSIGRYLLGKIFRKQEN 60  
|||||  
1 PLALBDMCRIMSVDECKSLMTGIPADFEAEIOEVLQETLSIGRYLLGKIFRKQEN 60  
|||||  
61 ANAVLLELLEDDVSAIPEVQKGVKVIKTRVOTFEFLERLNTFLFKGQGVSCWF 120  
|||||  
61 ANAVLLELLEDDVSAIPEVQKGVKVIKTRVOTFEFLERLNTFLFKGQGVSCWF 120  
|||||  
121 PALGQALSPATVPCISPELLHLHGLQAMAAHAPQLLPMRYKLRVFGSAAVPADEESF 180



```
Db      121 RALGQALSPATVPCISPELLAHLGQAMAHAPQPLPMRYRLRVFSGSAVPAPPEESF 180
QY      181 EWLQATEIVKEMP 195
Db      181 EWLQATEIVKEMP 195

RESULT 2
US-09-804-014A-42
; Sequence 42, Application US/09804014A
; Publication No.: US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vermet, Corine
; APPLICANT: Fernandes, Elma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderma, Steven
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804, 014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/188,316
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/188,277
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 60/189,139
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/189,140
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: 60/190,401
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/190,231
; PRIOR FILING DATE: 2000-03-17
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 42
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Homo sapiens

Query Match      60.6%; Score 604; DB 10; Length 120;
Best Local Similarity 100.0%; Pred. No. 7.5e-53;
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 LALLEDMCRIMSVDEQKSLMVTGIPADFEAEIOEVLQETLSLGRYLLGKIFRKQENA 61
Db      1 LALLEDMCRIMSVDEQKSLMVTGIPADFEAEIOEVLQETLSLGRYLLGKIFRKQENA 60

QY      62 NAVLELLEDDVSAIPSEVQKGVWVKITFTPNODTEFLERLNLFLKEGQTVSGMR 121
Db      61 NAVLELLEDDVSAIPSEVQKGVWVKITFTPNODTEFLERLNLFLKEGQTVSGMR 120

RESULT 3
US-10-037-860-11
; Sequence 11, Application US/10037860
; Publication No.: US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmou
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCES: 2581,1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 283
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-11

Query Match      59.5%; Score 593; DB 13; Length 283;
Best Local Similarity 98.3%; Pred. No. 3.3e-51;
Matches 113; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      81 VQKGVWVKITFTPNODTEFLERLNLFLKEGQTVSGMFPALQGEALSPATVPCISPEL 140
Db      1 VQKGVWVKITFTPNODTEFLERLNLFLKEGQTVSGMFPALQGEVSPATVPCISPEL 60

QY      141 LAHLGQAMAHAPQPLPMRYRLRVFSGSAVPAPPEESFEWLQATEIVKEMP 195
Db      61 LAHLGQAMAHAPQPLPMRYRLRVFSGSAVPAPPEESFEWLQATEIVKEMP 115

RESULT 4
US-09-965-529-7
; Sequence 7, Application US/09965529
; Publication No.: US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyanng Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: P-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; PEPTIDE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1
US-09-965-529-7

Query Match      46.8%; Score 466; DB 9; Length 353;
Best Local Similarity 47.9%; Pred. No. 2.9e-38;
Matches 93; Conservative 38; Mismatches 57; Indels 6; Gaps 4;

QY      2 LALLEDMCRIMSVDEQKSLMVTGIPADFEAEIOEVLQETLSLGRYLLGKIFRKQENA 61
Db      3 MTLLEDMCRIMSVDEQKSLMVTGIPADFEAEIOEVLQETLSLGRYLLGKIFRKQENA 61

QY      62 NAVLELLEDDVSAIPSEVQKGVWVKITFTPNODTEFLERLNLFLKEGQTVSGMR 121
Db      62 KAALELLEDDVSAIPSEVQKGVWVKITFTPNODTEFLERLNLFLKEGQTVSGMR 121

QY      122 ALGQALSPATVPCISPELLAHLGQAMAHAPQPLPMRYRLRVFSGSAVPAPPEESF 180
Db      122 VLQGP--NPTPT--GPMRPMENLNLIDNVITGLVSIWKRRLTSGRIPGGETF 177

QY      181 EWLQATEIVKEMP 194
Db      178 DPMLEHTNEVLSEW 191

RESULT 5
```



```

US-09-969-680A-7
; Sequence 7, Application US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDHAN, Olga
; APPLICANT: BURGARD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PR-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PR
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7

Query Match          46.8%; Score 466; DB 10; Length 353;
Best Local Similarity 47.9%; Pred. No. 2,9e-38;
Matches 93; Conservative 38; Mismatches 57; Indels 6; Gaps 4;

QY 2 LALLBDMCRIMSVDEQKSLMTVTGTPADFEAEIQEVLQETLSLGRYRLGKIFRKQENA 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 3 MTLLEBDCRMGVNSQRLVWGIIPVNCDEAEIEETLQAMPOVS-YRMLGRMFREBNA 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 62 NAVLELEDDTDSAIPSEVQKGGWVKVIFKTPNODTEFLERLNLFLKEGQTVSGMFR 121
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 62 KALLLELTGAVDYAIIPREMPKGGWVKVLFKPTSDAEFLERLHLFLAREGTVQDVAR 121
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 122 ALGQELSPATVPCISPELLHLGQAMAHAPQPL-PWRYRKLTVFSGSAVPAPEESF 180
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 122 VLGFO--NPTPTP--GPEMPAEMLVYILDNVIOPLVESIWKRLTLFSGRDIPGPEETP 177
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 181 EVMLEQATEIVKEM 194
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 178 DPMLEHTNEVLEEM 191
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 6
; Sequence 13, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmou
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 463
; TYPE: PR
; ORGANISM: homo sapiens
US-10-037-860-13

```

```

Query Match          46.4%; Score 462.5; DB 13; Length 463;
Best Local Similarity 47.7%; Pred. No. 9,7e-38;
Matches 93; Conservative 34; Mismatches 65; Indels 3; Gaps 2;

QY 1 PLALLBDMCRIMSVDEQKSLMTVTGTPADFEAEIQEVLQETLSLGRYRLGKIFRKQENA 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 2 MTLLEBDCRMGVNSQRLVWGIIPVNCDEAEIEETLQAMPOVS-YRMLGRMFREBNA 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 61 ANAVLELEDDTDSAIPSEVQKGGWVKVIFKTPNODTEFLERLNLFLKEGQTVSGMFR 120
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 62 KALLLELTGAVDYAIIPREMPKGGWVKVLFKPTSDAEFLERLHLFLAREGTVQDVAR 121
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 121 RALGQELSPATVPCISPELLHLGQAMAHAPQPL-PWRYRKLTVFSGSAVPAPEESF 179
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 122 RVLGSDTNSAPRVTISPEFMT--WAQTGAADVQPLEQMLVRELNVFSGNTISRGALA 179
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 180 EVMLEQATEIVKEM 194
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 180 DPMLEHTNEVLEEM 194
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 7
US-10-037-860-4
; Sequence 4, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmou
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PR
; ORGANISM: homo sapiens
US-10-037-860-4

Query Match          44.3%; Score 441; DB 13; Length 329;
Best Local Similarity 46.4%; Pred. No. 8,9e-36;
Matches 90; Conservative 37; Mismatches 61; Indels 6; Gaps 4;

QY 2 LALLBDMCRIMSVDEQKSLMTVTGTPADFEAEIQEVLQETLSLGRYRLGKIFRKQENA 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 3 MTLLEBDCRMGVNSQRLVWGIIPVNCDEAEIEETLQAMPOVS-YRMLGRMFREBNA 61
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 62 NAVLELEDDTDSAIPSEVQKGGWVKVIFKTPNODTEFLERLNLFLKEGQTVSGMFR 121
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 62 KALLLELTGAVDYAIIPREMPKGGWVKVLFKPTSDAEFLERLHLFLAREGTVQDVAR 121
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 122 ALGQELSPATVPCISPELLHLGQAMAHAPQPL-PWRYRKLTVFSGSAVPAPEESF 180
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 122 VLGFO--NPTPTP--GPEMPAEMLVYILDNVIOPLVESIWKRLTLFSGKGRPRAMRGNF 177
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 181 EVMLEQATEIVKEM 194
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 178 DPMLEHTNEVLEEM 191
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 8
US-09-804-014A-40
; Sequence 40, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
US-09-804-014A-40

```



```
APPLICANT: Vernet, Corine
APPLICANT: Fernandes, Elma
APPLICANT: Shimkets, Richard
APPLICANT: Spaderma, Steven
APPLICANT: Majumder, Kumud
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-721 US
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/188,316
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/188,277
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/189,139
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/189,140
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/190,401
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/190,231
PRIOR FILING DATE: 2000-03-17
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 40
LENGTH: 318
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: VARIANT
LOCATION: (20)
OTHER INFORMATION: wherein Xaa is any amino acid as defined in the
OTHER INFORMATION: specification
US-09-804-014A-40

Query Match          44.2% Score 440; DB 10; Length 318;
Best Local Similarity 46.4%; Pred. No. 1,1e-35;
Matches 90; Conservative 36; Mismatches 62; Indels 6; Gaps 4;

QY 2 LALLDWCRIKMSVDEOKSLMTGIPADFEAEIOEVLQETLKSIGRYRLGKIFRKOENA 61
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 3 MTLLEDMCRGMDVNSQKXILVWGIPIVNCDEAIEETLQAMPOVS-YRMLGRMFRREENA 61
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 62 NAVLELEEDTDVSAIPSEVQGGVWKVIFKTPNDTEFLERLNLFLKEGQTVSGMFR 121
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 62 KALLLEBTGAVDYAAIPREMPGGVWKVLFKPTDSEFLERLHFLAREGTVQDVAR 121
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 122 ALGQELSPATVPCISPELHLHLGQAMAHAPQPLL-PMYRYKLRFVSGSAVAPAEESF 180
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 122 VLDFQ-NPTPTP--GPEMPEMLNLTLDNVITQPLVESIWKSLTLPFGKGRPRAMKGNF 177
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 181 EVMLEQATEIVKEM 194
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 178 DPMLEHTNEVLDEM 191
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 9
US-09-804-014A-73
Sequence 73, Application US/09804014A
Publication No. US20030064489A1
GENERAL INFORMATION:
APPLICANT: Li, Li
APPLICANT: Padigaru, Muralidhara
APPLICANT: Vernet, Corine
APPLICANT: Fernandes, Elma
APPLICANT: Shimkets, Richard
APPLICANT: Spaderma, Steven
APPLICANT: Majumder, Kumud
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-721 US
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/188,316
PRIOR FILING DATE: 2000-03-10
```

```
PRIOR APPLICATION NUMBER: 60/188,277
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/189,139
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/189,140
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/190,401
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/190,231
PRIOR FILING DATE: 2000-03-17
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 73
LENGTH: 312
TYPE: PRT
ORGANISM: Homo sapiens
US-09-804-014A-73

Query Match          43.8% Score 436; DB 10; Length 312;
Best Local Similarity 46.9%; Pred. No. 2.6e-35;
Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLDWCRIKMSVDEOKSLMTGIPADFEAEIOEVLQETLKSIGRYRLGKIFRKOENA 61
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 3 MTLLEDMCRGMDVNSQKXILVWGIPIVNCDEAIEETLQAMPOVS-YRMLGRMFRREENA 61
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 62 NAVLELEEDTDVSAIPSEVQGGVWKVIFKTPNDTEFLERLNLFLKEGQTVSGMFR 121
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 62 KALLLEBTGAVDYAAIPREMPGGVWKVLFKPTDSEFLERLHFLAREGTVQDVAR 121
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 122 ALGQELSPATVPCISPELHLHLGQAMAHAPQPLL-PMYRYKLRFVSGSAVAPAEESF 180
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 122 VLDFQ-NPTPTP--GPEMPEMLNLTLDNVITQPLVESIWKSLTLPFGKGRPRAMKGNF 177
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 181 EVMLEQATEIVKEM 194
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 182 GRMFMHTTQMIAKW 195
| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-09-804-014A-74
Sequence 74, Application US/09804014A
Publication No. US20030064489A1
GENERAL INFORMATION:
APPLICANT: Li, Li
APPLICANT: Padigaru, Muralidhara
APPLICANT: Vernet, Corine
APPLICANT: Fernandes, Elma
APPLICANT: Shimkets, Richard
APPLICANT: Spaderma, Steven
APPLICANT: Majumder, Kumud
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 15966-721 US
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/188,316
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/188,277
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 60/189,139
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/189,140
PRIOR FILING DATE: 2000-03-14
PRIOR APPLICATION NUMBER: 60/190,401
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/190,231
PRIOR FILING DATE: 2000-03-17
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 74
LENGTH: 312
TYPE: PRT
ORGANISM: Homo sapiens
```



US-09-804-014A-74

Query Match 43.8%; Score 436; DB 10; Length 312;  
 Best Local Similarity 46.9%; Pred. No. 2, 6e-35;  
 Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLIEDWCRMSVDEQKSLMTGTIPADFEAEIOEVLQETLSKIGRYRLGKIFRKQENA 61  
 DB 3 LRLLEDWCRGMDNPKRALLIAGISQSCVAIEEALQAGLAPLGEYRLGMRFRDNR 62  
 QY 62 NAVLELEDTDVAIPSEVOGKGVWVFYFKTPNODTEFLERLNFLEKGGTVSGMFR 121  
 DB 63 KVALVGLAETSHALVPKEIPGKGIWRYLFPKPDNDNTFLSRINEFLAGGTVGELSR 122  
 QY 122 ALGOEALSPATVPCISPELLAHLGQMAHAPOPLP-MRYRKLRFVSGSAVPAPEESF 180  
 DB 123 ALGHENGSLDPEQGMIPEMMAPMLAQL-ELALQALQCKLKYKLRVFSGRESPEPEEF 181  
 QY 181 EWLBOATEIVKEM 194  
 DB 182 GRMWFHTTOMIKAW 195

RESULT 11  
 US-09-804-014A-39

; Sequence 39, Application US/09804014A  
 ; Publication No. US20030064489A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Verneet, Corine  
 ; APPLICANT: Fernandes, Elma  
 ; APPLICANT: Shimkets, Richard  
 ; APPLICANT: Spaderna, Steven  
 ; APPLICANT: Majumder, Kundu  
 ; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 15966-721 US  
 ; CURRENT APPLICATION NUMBER: US/09/804, 014A  
 ; PRIOR FILING DATE: 2002-04-24  
 ; PRIOR APPLICATION NUMBER: 60/188,316  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 60/188,277  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 60/189,139  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/189,140  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/190,401  
 ; PRIOR FILING DATE: 2000-03-17  
 ; PRIOR APPLICATION NUMBER: 60/190,231  
 ; NUMBER OF SEQ ID NOS: 75  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO: 39  
 ; LENGTH: 1321  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-804-014A-39

Query Match 43.8%; Score 436; DB 10; Length 321;  
 Best Local Similarity 46.9%; Pred. No. 2, 7e-35;  
 Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;  
 QY 2 LALLIEDWCRMSVDEQKSLMTGTIPADFEAEIOEVLQETLSKIGRYRLGKIFRKQENA 61  
 DB 3 LRLLEDWCRGMDNPKRALLIAGISQSCVAIEEALQAGLAPLGEYRLGMRFRDNR 62  
 QY 62 NAVLELEDTDVAIPSEVOGKGVWVFYFKTPNODTEFLERLNFLEKGGTVSGMFR 121  
 DB 63 KVALVGLAETSHALVPKEIPGKGIWRYLFPKPDNDNTFLSRINEFLAGGTVGELSR 122  
 QY 122 ALGOEALSPATVPCISPELLAHLGQMAHAPOPLP-MRYRKLRFVSGSAVPAPEESF 180

DB 123 ALGHENGSLDPEQGMIPEMMAPMLAQL-ELALQALQCKLKYKLRVFSGRESPEPEEF 181  
 QY 181 EWLBOATEIVKEM 194  
 DB 182 GRMWFHTTOMIKAW 195

RESULT 12  
 US-09-965-529-1

; Sequence 1, Application US/09965529  
 ; Publication No. US20020182671A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LAL, Preeti  
 ; APPLICANT: YUE, Henry  
 ; APPLICANT: TANG, Y. Tom  
 ; APPLICANT: BANDMAN, Olga  
 ; APPLICANT: BURFORD, Neil  
 ; APPLICANT: AZIMZAI, Yaida  
 ; APPLICANT: BAUGHN, Mariah R.  
 ; APPLICANT: LU, Dying Aina M.  
 ; APPLICANT: PATTERSON, Chandra  
 ; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
 ; FILE REFERENCE: PR-0731 USA  
 ; CURRENT APPLICATION NUMBER: US/09/965,529  
 ; CURRENT FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315  
 ; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14  
 ; NUMBER OF SEQ ID NOS: 74  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 1  
 ; LENGTH: 351  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1  
 ; US-09-965-529-1

Query Match 43.8%; Score 436; DB 9; Length 351;  
 Best Local Similarity 46.9%; Pred. No. 3, 1e-35;  
 Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLIEDWCRMSVDEQKSLMTGTIPADFEAEIOEVLQETLSKIGRYRLGKIFRKQENA 61  
 DB 3 LRLLEDWCRGMDNPKRALLIAGISQSCVAIEEALQAGLAPLGEYRLGMRFRDNR 62  
 QY 62 NAVLELEDTDVAIPSEVOGKGVWVFYFKTPNODTEFLERLNFLEKGGTVSGMFR 121  
 DB 63 KVALVGLAETSHALVPKEIPGKGIWRYLFPKPDNDNTFLSRINEFLAGGTVGELSR 122  
 QY 122 ALGOEALSPATVPCISPELLAHLGQMAHAPOPLP-MRYRKLRFVSGSAVPAPEESF 180  
 DB 123 ALGHENGSLDPEQGMIPEMMAPMLAQL-ELALQALQCKLKYKLRVFSGRESPEPEEF 181  
 QY 181 EWLBOATEIVKEM 194  
 DB 182 GRMWFHTTOMIKAW 195

RESULT 13  
 US-09-804-014A-16

; Sequence 16, Application US/09804014A  
 ; Publication No. US20030064489A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Verneet, Corine  
 ; APPLICANT: Fernandes, Elma  
 ; APPLICANT: Shimkets, Richard  
 ; APPLICANT: Spaderna, Steven  
 ; APPLICANT: Majumder, Kundu  
 ; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 15966-721 US



CURRENT APPLICATION NUMBER: US/09/804,014A  
 CURRENT FILING DATE: 2002-04-24  
 PRIOR APPLICATION NUMBER: 60/188,316  
 PRIOR FILING DATE: 2000-03-10  
 PRIOR APPLICATION NUMBER: 60/188,277  
 PRIOR FILING DATE: 2000-03-10  
 PRIOR APPLICATION NUMBER: 60/189,139  
 PRIOR FILING DATE: 2000-03-14  
 PRIOR APPLICATION NUMBER: 60/189,140  
 PRIOR FILING DATE: 2000-03-14  
 PRIOR APPLICATION NUMBER: 60/190,401  
 PRIOR FILING DATE: 2000-03-17  
 PRIOR APPLICATION NUMBER: 60/190,231  
 PRIOR FILING DATE: 2000-03-17  
 NUMBER OF SEQ ID NOS: 75  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 16  
 LENGTH: 351  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-804-014A-16

Query Match 43.8%; Score 436; DB 10; Length 351;  
 Best Local Similarity 46.9%; Pred. No. 3,1e-35;  
 Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLIEDMCRIMSVDEOKSLMTGTIPADPEAEIOEVLOETLSIGRYRLGKIFRKQENA 61  
 DB 3 LRLLEDRCRGMNDNPRKALIIAGISQSCSVAEIEEALQAGIAPLGEYRLGRRFRDENR 62  
 QY 62 NAVLELLEDPTDVAISPEVOGKGVKVIKFTPNODEFLERLNLFLKEGQTVSGMFR 121  
 DB 63 KVALVGLTAETSHALVKEIPKGGIWRVIFKPPDPNTLSRLNEFLAGEGTVGELSR 122  
 QY 122 ALGGEALSPATVPCISPELLAHLGQMAHAPOPPLP-MRKRKLRFVSGSAVPAPEESF 180  
 DB 123 ALGHENGSLDPEQGMIPENWAPMLAQAL-EALQPALQCLTKYKRLRVFSGRESPEGEERF 181  
 QY 181 EWMLEQATEIVKEM 194  
 DB 182 GRWMTHTOMIKAW 195  
 QY 182 GRWMTHTOMIKAW 195

RESULT 14  
 US-09-969-680A-1  
 Sequence 1, Application US/09969680A  
 Publication No. US20030124649A1

GENERAL INFORMATION:  
 APPLICANT: LAL, Preeti; YUE, Henry  
 APPLICANT: TANG, Y. Tom; BANDMAN, Olga  
 APPLICANT: BUREFORD, Neil; AZIMZAI, Yalda  
 APPLICANT: BAUGHN, Mariah R.; LU, Dzung Anna M.

TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
 FILE REFERENCE: PF-0731-1 USA  
 CURRENT APPLICATION NUMBER: US/09/969,680A  
 CURRENT FILING DATE: 2001-10-02  
 PRIOR APPLICATION NUMBER: US00/22315  
 PRIOR FILING DATE: 2000-08-14  
 PRIOR APPLICATION NUMBER: 60/149,641  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/164,203  
 PRIOR FILING DATE: 1999-11-09  
 NUMBER OF SEQ ID NOS: 74  
 SOFTWARE: PERL Program  
 SEQ ID NO 1  
 LENGTH: 351  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 NAME/KEY: misc feature  
 OTHER INFORMATION: Incyte ID No. US20030124649A1 112301CD1  
 US-09-969-680A-1

Query Match 43.8%; Score 436; DB 10; Length 351;  
 Best Local Similarity 46.9%; Pred. No. 3,1e-35;  
 Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLIEDMCRIMSVDEOKSLMTGTIPADPEAEIOEVLOETLSIGRYRLGKIFRKQENA 61  
 DB 3 LRLLEDRCRGMNDNPRKALIIAGISQSCSVAEIEEALQAGIAPLGEYRLGRRFRDENR 62  
 QY 62 NAVLELLEDPTDVAISPEVOGKGVKVIKFTPNODEFLERLNLFLKEGQTVSGMFR 121  
 DB 63 KVALVGLTAETSHALVKEIPKGGIWRVIFKPPDPNTLSRLNEFLAGEGTVGELSR 122  
 QY 122 ALGGEALSPATVPCISPELLAHLGQMAHAPOPPLP-MRKRKLRFVSGSAVPAPEESF 180  
 DB 123 ALGHENGSLDPEQGMIPENWAPMLAQAL-EALQPALQCLTKYKRLRVFSGRESPEGEERF 181  
 QY 181 EWMLEQATEIVKEM 194  
 DB 182 GRWMTHTOMIKAW 195

RESULT 15  
 US-10-341-434-10  
 Sequence 10, Application US/10341434  
 Publication No. US20030215835A1  
 GENERAL INFORMATION:  
 APPLICANT: Origene Technologies  
 TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes  
 FILE REFERENCE: 9U 204 205 R1  
 CURRENT APPLICATION NUMBER: US/10/341,434  
 CURRENT FILING DATE: 2003-07-18  
 PRIOR APPLICATION NUMBER: US 60/348,164  
 PRIOR FILING DATE: 2002-01-15  
 PRIOR APPLICATION NUMBER: US 60/348,119  
 PRIOR FILING DATE: 2002-01-15  
 NUMBER OF SEQ ID NOS: 238  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 10  
 LENGTH: 351  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-341-434-10

Query Match 43.8%; Score 436; DB 15; Length 351;  
 Best Local Similarity 46.9%; Pred. No. 3,1e-35;  
 Matches 91; Conservative 30; Mismatches 71; Indels 2; Gaps 2;

QY 2 LALLIEDMCRIMSVDEOKSLMTGTIPADPEAEIOEVLOETLSIGRYRLGKIFRKQENA 61  
 DB 3 LRLLEDRCRGMNDNPRKALIIAGISQSCSVAEIEEALQAGIAPLGEYRLGRRFRDENR 62  
 QY 62 NAVLELLEDPTDVAISPEVOGKGVKVIKFTPNODEFLERLNLFLKEGQTVSGMFR 121  
 DB 63 KVALVGLTAETSHALVKEIPKGGIWRVIFKPPDPNTLSRLNEFLAGEGTVGELSR 122  
 QY 122 ALGGEALSPATVPCISPELLAHLGQMAHAPOPPLP-MRKRKLRFVSGSAVPAPEESF 180  
 DB 123 ALGHENGSLDPEQGMIPENWAPMLAQAL-EALQPALQCLTKYKRLRVFSGRESPEGEERF 181  
 QY 181 EWMLEQATEIVKEM 194  
 DB 182 GRWMTHTOMIKAW 195

Search completed: April 8, 2005, 13:35:13  
 Job time : 44.5624 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OW protein - protein search, using sw model

Run on: April 8, 2005, 11:48:54 ; Search time 11.4454 Seconds

(without alignments)  
971.808 Million cell updates/sec

Title: US-10-037-860-9

Perfect score: 766

Sequence: 1 DLMHIVQADNPISIVECLE.....STIEPERDGYGRWNEGDD 149

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%

Listing first 45 summaries

Database :

1: Issued Patents AA:\*

2: /cgn2\_6/prodata/1/aa/5A-COMB.pep:\*

3: /cgn2\_6/prodata/1/aa/5B-COMB.pep:\*

4: /cgn2\_6/prodata/1/aa/5A-COMB.pep:\*

5: /cgn2\_6/prodata/1/aa/5B-COMB.pep:\*

6: /cgn2\_6/prodata/1/aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	323	42.2	462	3	US-09-189-527-13
2	256.5	33.5	329	3	US-09-189-527-4
3	94.5	12.3	577	4	US-09-949-016-10835
4	89.5	11.7	800	4	US-09-555-790A-2
5	89.5	11.4	800	4	US-09-202-047A-2
6	87	11.4	545	4	US-09-908-988B-4
7	84.5	11.0	1307	4	US-09-949-016-7561
8	81.5	10.6	1898	1	US-08-056-200-94
9	81.5	10.6	1898	2	US-08-800-644-94
10	81.5	10.6	1898	4	US-09-538-092-1280
11	80.5	10.5	531	4	US-09-248-796A-20235
12	80	10.4	568	4	US-09-949-016-10896
13	80	10.4	587	4	US-09-538-092-1130
14	80	10.4	825	3	US-09-540-824-26
15	77.5	10.1	620	4	US-09-538-092-1285
16	77	10.1	237	2	US-08-469-537A-85
17	77	10.1	370	3	US-08-857-076-107
18	77	10.1	661	4	US-09-107-532A-3677
19	77	10.1	1367	2	US-08-249-687C-2
20	77	10.1	1367	2	US-08-625-819-2
21	77	10.1	1367	3	US-08-746-559A-2
22	77	10.1	1367	3	US-08-864-641B-18
23	77	10.1	1367	4	US-09-343-551-2
24	77	10.1	1367	4	US-09-949-001-18
25	77	10.1	1377	4	US-09-949-001-21
26	76	9.9	754	4	US-09-585-173B-51
27	75.5	9.9	503	4	US-09-270-767-45438

28	75.5	9.9	591	4	US-09-198-452A-806	Sequence 806, App
29	75.5	9.9	596	4	US-09-438-185A-758	Sequence 758, App
30	75	9.8	571	4	US-09-489-039A-10805	Sequence 10805, A
31	75	9.8	704	4	US-09-370-838-191	Sequence 191, App
32	75	9.8	704	4	US-09-854-133-191	Sequence 191, App
33	75	9.8	725	4	US-09-902-540-13698	Sequence 13698, A
34	75	9.8	1197	4	US-09-618-425-2	Sequence 2, Appli
35	75	9.8	1976	4	US-09-538-092-1078	Sequence 1078, Ap
36	74	9.7	217	1	US-08-185-424B-2	Sequence 2, Appli
37	74	9.7	322	4	US-09-540-236-2700	Sequence 2700, Ap
38	74	9.7	420	3	US-09-329-418-8	Sequence 8, Appli
39	74	9.7	420	3	US-09-531-914-8	Sequence 8, Appli
40	74	9.7	497	4	US-09-345-473E-8	Sequence 3, Appli
41	74	9.7	518	3	US-09-329-418-3	Sequence 4, Appli
42	74	9.7	518	3	US-09-329-418-4	Sequence 5, Appli
43	74	9.7	518	3	US-09-329-418-5	Sequence 9, Appli
44	74	9.7	518	3	US-09-329-418-9	Sequence 3, Appli
45	74	9.7	518	3	US-09-531-914-3	Sequence 3, Appli

## ALIGNMENTS

```

RESULT 1
US-09-189-527-13
; Sequence 13, Application US/09189527A
; Patent No. 6387639
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma
; FILE REFERENCE: SLK98-01
; CURRENT APPLICATION NUMBER: US/09/189,527A
; CURRENT FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 13
; LENGTH: 462
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-189-527-13

```

Query Match 42.2%; Score 323; DB 3; Length 462;

Best Local Similarity 52.7%; Pred. No. 4,1e-29;

Matches 68; Conservative 26; Mismatches 33; Indels 2; Gaps 1;

```

QY 6 VOADNPISIVECLEAFKQVFGSLERRTAOVRIKPYDEGKVSAYTLRLTLRAV 65
DB 214 LRASNSATVEECTALQOVFGVESHKTAQVTLCAVYAGAKVSSFVLRLEPILQRAV 273
QY 66 EKRAIRRIADQVRLQWAGATINQMLMCRRELKDQPPSPFELMKVIREEEBAS 125
DB 274 ENNVSRKRNQRLKRVLSGATLPKLDKLMQKRPFLVTLVTLREBEEMAT 333
QY 126 F--ENESIE 132
DB 334 LSPDRESLE 342

```

RESULT 2  
US-09-189-527-4  
; Sequence 4, Application US/09189527A  
; Patent No. 6387639  
; GENERAL INFORMATION:  
; APPLICANT: Jerome B. Posner  
; APPLICANT: Joseph O. Dalmau  
; APPLICANT: Myrna R. Rosenfeld  
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
; FILE REFERENCE: SLK98-01  
; CURRENT APPLICATION NUMBER: US/09/189,527A



```
; CURRENT FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-189-527-4

Query Match      33.5%; Score 256.5; DB 3; Length 329;
Best Local Similarity 46.6%; Pred. No. 1.5e-21;
Matches 54; Conservative 23; Mismatches 30; Indels 7; Gaps 2;

QY 1 DLNHYVADNPISVVECELEAFKQVFGSLERRTAQRVRLKPYOEGEKVSAYVLRLETL 60
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 212 DVLRILSNPALTTHACLEQVFGSVSSRDAQIKFLNTYQNGEKLSAIVIRLEPL 271

QY 61 LRRAVEKRAIPRIADQVRLEQVMAGN---TLNQMLCRLRLKQGPSPFLEL 112
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 272 LQKVEKGAIDKQNVNQARLEQVIAGANHGAIIRQLML---TGAGSGPGPKPLSV 324

RESULT 3
US-09-949-016-10835
; Sequence 10835, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMERISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10835
; LENGTH: 577
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10835

Query Match      12.3%; Score 94.5; DB 4; Length 577;
Best Local Similarity 23.5%; Pred. No. 0.03;
Matches 36; Conservative 23; Mismatches 53; Indels 35; Gaps 5;

QY 4 HYYVADNPISVVECELEAFKQVFGSLERRTAQRVRLKPYOEGEKVS-----A 52
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 332 HYEMDNDSCKEKEIKIITIGRFDSK-----RECKQSLHETLTINAAQ 380

QY 53 VYVLETLRLRAVEKRAIPRIADQVRLEQVMAGATLN---QMLWCRLERLKD----- 102
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 381 FQKNDNTLLRLVLFSLSGVAVNESTYLSLKSRLHPELGGPPLKKLKQEVGESH 440

QY 103 --QGPSPFLELMKVIREE--EEEASFENESIE 132
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 441 EIQPPGPGPSYVPYRPSLEDSASISGESLD 473

RESULT 4
US-09-555-790A-2
; Sequence 2, Application US/09555790A
; Patent No. 6555652
; GENERAL INFORMATION:
; APPLICANT: ITOH, KYOGO et al.
; TITLE OF INVENTION: TUMOR ANTIGEN PEPTIDE DERIVATIVES
; FILE REFERENCE: 0020-4716D
; CURRENT APPLICATION NUMBER: US/09/555,790A
```

```
; CURRENT FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 800
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-555-790A-2

Query Match      11.7%; Score 89.5; DB 4; Length 800;
Best Local Similarity 25.3%; Pred. No. 0.18;
Matches 37; Conservative 25; Mismatches 51; Indels 33; Gaps 6;

QY 5 IYVADNPISVVECELEAFKQVFGSLERRTAQRVRLKPYOEGEKVSAYVLRLETLRLRA 64
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 489 VLEEDAELELQKLE-----KGRRLRQLQQLQRLDSGEKVELVKKLESRGW 539

QY 65 VEKRAIPRIADQVRLEQVMAGATLNQMLWCR--LRLEKQGPSPFLELMKVIREEE 123
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 540 EEDE-----DPERKGAIVFNATSE---FCRTLGEIPTYG-----LAGNREOEEL 581

QY 124 ASPENESIEPERDQYGRMNEGDD 149
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 582 MDPERD-----BERSANGSESDEE 602

RESULT 5
US-09-202-047A-2
; Sequence 2, Application US/09202047A
; Patent No. 6815531
; GENERAL INFORMATION:
; APPLICANT: ITOH, KYOGO
; APPLICANT: SHICHIO, Shigeki
; APPLICANT: IMAI, Yasuhisa
; TITLE OF INVENTION: TUMOR ANTIGEN PROTEINS, GENES THEREFOR, AND TUMOR
; FILE REFERENCE: 0020-4491P
; CURRENT APPLICATION NUMBER: US/09/202,047A
; CURRENT FILING DATE: 1998-12-07
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 800
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-202-047A-2

Query Match      11.7%; Score 89.5; DB 4; Length 800;
Best Local Similarity 25.3%; Pred. No. 0.18;
Matches 37; Conservative 25; Mismatches 51; Indels 33; Gaps 6;

QY 5 IYVADNPISVVECELEAFKQVFGSLERRTAQRVRLKPYOEGEKVSAYVLRLETLRLRA 64
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 489 VLEEDAELELQKLE-----KGRRLRQLQQLQRLDSGEKVELVKKLESRGW 539

QY 65 VEKRAIPRIADQVRLEQVMAGATLNQMLWCR--LRLEKQGPSPFLELMKVIREEE 123
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 540 EEDE-----DPERKGAIVFNATSE---FCRTLGEIPTYG-----LAGNREOEEL 581

QY 124 ASPENESIEPERDQYGRMNEGDD 149
   ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
DB 582 MDPERD-----BERSANGSESDEE 602

RESULT 6
US-09-908-988B-4
; Sequence 4, Application US/09908988B
; Patent No. 6740751
; GENERAL INFORMATION:
; APPLICANT: OLSON, ERIC
; APPLICANT: SPENCER, JEFFREY A.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR STABILIZING MICROTUBULES
; TITLE OF INVENTION: IN STRIATED MUSCLE CELLS
```



FILE REFERENCE: MYOG:028US  
 CURRENT APPLICATION NUMBER: US/09/908,988B  
 CURRENT FILING DATE: 2000-07-18  
 PRIOR APPLICATION NUMBER: 60/219,020  
 PRIOR FILING DATE: 2000-07-18  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 4  
 LENGTH: 545  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 US-09-908-988B-4

Query Match 11.4%; Score 87; DB 4; Length 545;  
 Best Local Similarity 25.0%; Pred. No. 0.21;  
 Matches 44; Conservative 23; Mismatches 49; Indels 60; Gaps 8;

QY 5 IVQADNPISIVSEC-----LEAFKQVFGSLESRRYKQRYLKPYOEG----- 47  
 DB 190 ISQLEDTCKTIEECCKKQKODLCEKPDHLYGILEERKTEMTQAITRTOEKELEHVETLIR 249  
 QY 48 -----EKYS-----AYVLRLETLRRAVEKRAIPRIADQVRLQO--- 82  
 DB 250 KTSDHLENVSKVESGIQFDEPEMAVFLQNAKTLLOKIVE---ASKAPQMEKLEQGYE 305  
 QY 83 VMAGATLNQMLWCRLELKDQGPSPFLELMKVIREEESEASFENESIEEPEERD 138  
 DB 306 INSNFTVNLN-----REK-----ITREIDFSREEEEDAGEID--EEEGED 347

RESULT 7  
 US-09-949-016-7561  
 Sequence 7561, Application US/09949016  
 Patent No. 6812339  
 GENERAL INFORMATION:  
 APPLICANT: VENTER, J. Craig et al.  
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 FILE REFERENCE: CLO01307  
 CURRENT APPLICATION NUMBER: US/09/949,016  
 CURRENT FILING DATE: 2000-04-14  
 PRIOR APPLICATION NUMBER: 60/241,755  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/237,768  
 PRIOR FILING DATE: 2000-10-03  
 PRIOR APPLICATION NUMBER: 60/231,498  
 PRIOR FILING DATE: 2000-09-08  
 NUMBER OF SEQ ID NOS: 207012  
 SOFTWARE: FastSeq for Windows, Version 4.0  
 SEQ ID NO 7561  
 LENGTH: 1307  
 TYPE: PRT  
 ORGANISM: Human  
 US-09-949-016-7561

Query Match 11.0%; Score 84.5; DB 4; Length 1307;  
 Best Local Similarity 19.0%; Pred. No. 1.4;  
 Matches 39; Conservative 25; Mismatches 56; Indels 85; Gaps 6;

QY 16 EECLEAFKQVFGSLESRRYKQRYLKPYOEGEKVSAVY----- 54  
 DB 880 EEOQMTKAVLEKEKDLANTGKMDLOEENESLKAHVQEVQHNLIKESASQPEELE 939  
 QY 55 -----LRLETLRRAVEKRAIPRIADQVRLQWAGATLNQMLWCRLEKDOG 104  
 DB 940 IYLKEKENEKLEAMKESLSKTKLOLDVQDE-----NKLKRSQLEKQOY 991  
 QY 105 -----PPSPFLELMKVIREEESEASFENE-----SIEEPEERD----- 138  
 DB 992 YQOASSPPHE--ELKLVISEREKEISGLWNEIDSLKDVAEHQKKKNRQOQVEAVELE 1049  
 QY 139 -----GYGRWNH 145

DB 1050 AKVILKLFPPKVSVPNSLISYGEWLH 1074

RESULT 8  
 US-08-056-200-94  
 Sequence 94, Application US/08056200  
 Patent No. 5616500  
 GENERAL INFORMATION:  
 APPLICANT: Steinert, Peter M.  
 APPLICANT: Lee, Seung-Chul  
 APPLICANT: Kim, In-Gyu  
 APPLICANT: Chung, Soo-Il  
 TITLE OF INVENTION: Trichohyalin and Transglutaminase-3 and  
 NUMBER OF SEQUENCES: 117  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Knobbe, Martens, Olson & Bear  
 STREET: 620 Newport Center Drive, Sixteenth Floor  
 CITY: Newport Beach  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92660

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/056,200  
 FILING DATE: 30-APR-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Fedrick, Michael F.  
 REGISTRATION NUMBER: 36,799  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (714) 760-0404  
 TELEFAX: (714) 760-9502  
 INFORMATION FOR SEQ ID NO: 94:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1898 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: Protein  
 US-08-056-200-94

Query Match 10.6%; Score 81.5; DB 1; Length 1898;  
 Best Local Similarity 28.9%; Pred. No. 5.4;  
 Matches 35; Conservative 16; Mismatches 45; Indels 25; Gaps 4;

QY 20 EAFKQVFGSLESRRYKQRYLKPYOEGEKVSAVYLRLETLRRAVEKRAIPRIAD 76  
 DB 563 ERLQDLKREBEKRLQERREORLKRQDE-----RQDLKREBEKRLQKQ 613  
 QY 77 QVRLQWAGATLNQMLWCRLELKDQGPSPFLELMKVIREEESEASFENESIEEPEE 136  
 DB 614 EERLQRLKREVERL-----EQERRD-----RLKREPEERERRHLKSEBOE 660  
 QY 137 R 137  
 DB 661 R 661

RESULT 9  
 US-08-800-644-94  
 Sequence 94, Application US/08800644  
 Patent No. 5958752  
 GENERAL INFORMATION:  
 APPLICANT: Steinert, Peter M.  
 APPLICANT: Lee, Seung-Chul  
 APPLICANT: Kim, In-Gyu  
 APPLICANT: Chung, Soo-Il







```

; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10896
; LENGTH: 568
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10896

```

```

Query Match      10.4%; Score 80; DB 4; Length 568;
Best Local Similarity 26.6%; Pred. No. 1.4;
Matches 37; Conservative 22; Mismatches 60; Indels 20; Gaps 5;

```

```

QY 12 SISVECLAFKQV---FGSLERRTAQVRYLKPYOEGEKVSAYVLRLETLRRAYEK 67
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 297 AVAAAEFLKTRQVEVINFGDCLVRSKGAVALADAIRGSLPKLKEINLSFCEIKRDA-- 354
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 68 RAIRRRADQVRLQV--MAGATLNQMLMCRRLKDGPPPSFLEMKVIR-----EE 119
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 355 LAVAMADKAELEKLDINGNTLGECEGCEQLQEVLEG-----FNMAKVLASLSDDEDE 408
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 120 EEEESAFENESIEEPED 138
   |||||:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 409 EEEEGEEEEEAEED 427

```

```

RESULT 13
US-09-538-092-1130
; Sequence 1130, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Gluc, Loic
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CurataseqFormatter; Version 0.9
; SEQ ID NO 1130
; LENGTH: 587
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number P46060
US-09-538-092-1130

```

```

Query Match      10.4%; Score 80; DB 4; Length 587;
Best Local Similarity 26.6%; Pred. No. 1.5;
Matches 37; Conservative 22; Mismatches 60; Indels 20; Gaps 5;

```

```

QY 12 SISVECLAFKQV---FGSLERRTAQVRYLKPYOEGEKVSAYVLRLETLRRAYEK 67
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 293 AVAAAEFLKTRQVEVINFGDCLVRSKGAVALADAIRGSLPKLKEINLSFCEIKRDA-- 310
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 68 RAIRRRADQVRLQV--MAGATLNQMLMCRRLKDGPPPSFLEMKVIR-----EE 119
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 311 LAVAMADKAELEKLDINGNTLGECEGCEQLQEVLEG-----FNMAKVLASLSDDEDE 364
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 120 EEEESAFENESIEEPED 138
   |||||:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 365 EEEEGEEEEEAEED 383

```

```

RESULT 14
US-09-540-824-26
; Sequence 26, Application US/09540824
; Patent No. 6383753
; GENERAL INFORMATION:
; APPLICANT: Thiele, Dennis
; TITLE OF INVENTION: No. 6383753el Yeast and Mammalian Regulators of Cell Prolifer;
; FILE REFERENCE: UM-04266
; CURRENT APPLICATION NUMBER: US/09/540,824
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 26
; LENGTH: 825
; TYPE: PRT
; ORGANISM: Schizosaccharomyces pombe
US-09-540-824-26

```

```

Query Match      10.4%; Score 80; DB 3; Length 825;
Best Local Similarity 25.8%; Pred. No. 2.4;
Matches 33; Conservative 25; Mismatches 32; Indels 38; Gaps 8;

```

```

QY 30 ESRRTAQVRYLKPYOEGEKVSAYVLRLETLRRAY-EKRAIP-RIADQVRLQVMAGA 87
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 253 KASRKGSIKTRQPIISGD-----ARYDSFVEMVFDKRAHPTEKTEEEELAQIEAD- 305
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 88 TLNQMLMCRRLKDGPPPSFLEMKVIR-EEESAFENESIEEPED--GYGR- 142
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 306 -----RURELEQ-----RISMEHYQESASEAGSIEDQATDNVFGFGK 347
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 143 -----WN 144
   |||||
DB 348 QENEENWN 355

```

```

RESULT 15
US-09-538-092-1285
; Sequence 1285, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Gluc, Loic
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CurataseqFormatter Version 0.9
; SEQ ID NO 1285
; LENGTH: 620
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number Q08379
US-09-538-092-1285

```

```

Query Match      10.1%; Score 77.5; DB 4; Length 620;
Best Local Similarity 25.0%; Pred. No. 3.2;
Matches 35; Conservative 26; Mismatches 48; Indels 31; Gaps 5;

```

```

QY 15 VEECLAFKQVFGSLERRTAQVRYLKPYOEGEKVSAY-----VLRLETLRRAY- 65
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
DB 212 LKETVELKSQEAQSLQQRQVYGHQV-----VAAVQQLTSEKVELHNLQLQTQLV 265
   :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 66 -----EKRAIRRIADQV-----LEQVMAGATLNQMLMCRRLKDGPPPSFLEMKVIR 115

```



Db 266 DQLQOQOEACQKAVAEAMARELQETOBRLEATQONQOLRAQLSLMAHPG-----EGDGL,319  
QY 116 IREEEEASPESEIERPE 135  
Db 320 DREBBDEEEEEEAAVAPQ 339

Search completed: April 8, 2005, 12:52:55  
Job time: 11.4454 sec6



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd

OM protein - protein search, using sw model

Run on: April 8, 2005, 17:40:26 ; Search time 33.2861 Seconds  
(without alignments)  
1486.133 Million cell updates/sec

```

Title: US-10-037-860-9
Perfect score: 766
Sequence: 1 DLMIIVQADNPISIVEECLE.....SIEPPEBDGYGRWHEGDD 149

```

Scoring table: BLOSUM62

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

## Listing first 45 summaries

Database : Published Applications AA:\*

1:	/csm2_6/p10data/1/pubppa/US07_PUBCOMB.pcp.*
2:	/csm2_6/p10data/1/pubppa/PCT_NEW_PUB.pcp.*
3:	/csm2_6/p10data/1/pubppa/US06_NEW_PUB.pcp.*
4:	/csm2_6/p10data/1/pubppa/US06_PUBCOMB.pcp.*
5:	/csm2_6/p10data/1/pubppa/US07_NEW_PUB.pcp.*
6:	/csm2_6/p10data/1/pubppa/PCTUS_PUBCOMB.pcp.*
7:	/csm2_6/p10data/1/pubppa/US08_NEW_PUB.pcp.*
8:	/csm2_6/p10data/1/pubppa/US09_PUBCOMB.pcp.*
9:	/csm2_6/p10data/1/pubppa/US09_PUBCOMB.pcp.*
10:	/csm2_6/p10data/1/pubppa/US09B_PUBCOMB.pcp.*
11:	/csm2_6/p10data/1/pubppa/US09C_PUBCOMB.pcp.*
12:	/csm2_6/p10data/1/pubppa/US09_NEW_PUB.pcp.*
13:	/csm2_6/p10data/1/pubppa/US10_PUBCOMB.pcp.*
14:	/csm2_6/p10data/1/pubppa/US10B_PUBCOMB.pcp.*
15:	/csm2_6/p10data/1/pubppa/US10C_PUBCOMB.pcp.*
16:	/csm2_6/p10data/1/pubppa/US10D_PUBCOMB.pcp.*
17:	/csm2_6/p10data/1/pubppa/US10_NEW_PUB.pcp.*
18:	/csm2_6/p10data/1/pubppa/US11_NEW_PUB.pcp.*
19:	/csm2_6/p10data/1/pubppa/US06_NEW_PUB.pcp.*
20:	/csm2_6/p10data/1/pubppa/US06_PUBCOMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	766	100.0	149	13 US-10-037-860-1	Sequence 9, Appli
2	755	198.6	283	13 US-10-037-860-11	Sequence 11, Appli
3	323	42.2	463	13 US-10-037-860-13	Sequence 13, Appli
4	295.5	38.6	353	9 US-09-965-529-7	Sequence 7, Appli
5	295.5	38.6	353	10 US-09-965-529-7	Sequence 7, Appli
6	287	37.5	452	16 US-10-408-765A-7385	Sequence 2385, Appli
7	277	36.2	399	15 US-10-094-749-1978	Sequence 1978, Appli
8	271.5	35.4	351	9 US-09-965-529-1	Sequence 1, Appli
9	271.5	35.4	351	10 US-09-804-014A-16	Sequence 16, Appli
10	271.5	35.4	351	10 US-09-969-680A-1	Sequence 1, Appli
11	271.5	35.4	351	15 US-10-341-434-10	Sequence 10, Appli
12	256.5	33.5	329	13 US-10-037-860-4	Sequence 4, Appli
13	255	33.3	318	16 US-09-804-014A-40	Sequence 40, Appli

14	247.5	12.2	403	15	US-10-094-466-38	Sequence 38, Appl
15	240	31.3	337	15	US-10-096-115-1208	Sequence 1208, Appl
16	237	30.9	402	17	US-10-059-513-26	Sequence 26, Appl
17	235	30.7	321	10	US-09-804-014A-39	Sequence 39, Appl
18	225	29.4	312	10	US-09-804-014A-73	Sequence 73, Appl
19	225	29.4	312	10	US-09-804-014A-74	Sequence 74, Appl
20	97.5	12.7	218	15	US-10-094-749-2881	Sequence 2881, Appl
21	96.5	12.6	542	15	US-10-005-331-57	Sequence 57, Appl
22	95.5	12.5	407	16	US-10-755-889-1122	Sequence 122, Appl
23	93.5	11.2	620	16	US-10-437-963-158544	Sequence 158544, Appl
24	91.5	11.9	346	15	US-10-310-154-448	Sequence 448, Appl
25	90	11.7	592	15	US-10-438-339-8	Sequence 8, Appl
26	90	11.7	592	15	US-10-438-477-8	Sequence 8, Appl
27	90	11.7	592	15	US-10-354-829A-8	Sequence 2, Appl
28	89.5	11.7	800	17	US-10-521-110-51	Sequence 51, Appl
29	89.5	11.7	800	17	US-10-559-513-92	Sequence 51, Appl
30	89	11.6	1474	16	US-10-437-963-187531	Sequence 187531, Appl
31	87.5	11.4	2552	16	US-10-437-963-129734	Sequence 129734, Appl
32	87	11.4	545	9	US-09-908-9889-4	Sequence 4, Appl
33	87	11.4	545	16	US-10-775-649-4	Sequence 4, Appl
34	87	11.4	545	16	US-10-775-627-4	Sequence 4, Appl
35	84.5	11.0	1300	16	US-10-408-765A-257	Sequence 257, Appl
36	83.5	10.9	631	17	US-10-723-518-3	Sequence 3, Appl
37	83	10.8	882	14	US-10-398-417-2	Sequence 2, Appl
38	83	10.8	1687	16	US-10-437-963-187527	Sequence 187527, Appl
39	83	10.8	1708	16	US-10-437-963-187533	Sequence 187533, Appl
40	82.5	10.8	384	16	US-10-437-963-182739	Sequence 182739, Appl
41	82.5	10.8	435	9	US-09-866-582-813	Sequence 33, Appl
42	82.5	10.8	435	17	US-10-839-015-33	Sequence 33, Appl
43	82.5	10.8	545	16	US-10-437-963-156505	Sequence 156505, Appl
44	82.5	10.8	817	16	US-10-363-616-447	Sequence 447, Appl
45	82.5	10.8	996	15	US-10-380-492A-4	Sequence 4, Appl

## ALIGNMENTS

```

RESULT 1
US-10-037-860.-9
Sequence 9, Application US/10037860
Publication No. US20020123114A1
GENERAL INFORMATION:
APPLICANT: Jerome B. Posner
APPLICANT: Joseph O. Daltm
APPLICANT: Myrna R. Rosentfeld
TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
TITLE OF INVENTION: ANTIBODIES
FILE REFERENCE: 2581, 1004-004
CURRENT APPLICATION NUMBER: US/10/037,860
CURRENT FILING DATE: 2001-01-04
PRIOR APPLICATION NUMBER: 09/189,527
PRIOR FILING DATE: 1998-11-10
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 149
TYPE: PRT
ORGANISM: homo sapiens
US-10-037-860.-9

```

Query Match 100.0%; Score 766; DB 13; Length 149;

```
Matches 149; Conservative 0; Mismatches 0; Indels 0; Gaps
```

QY 1 DIMHIVQADNPSSIVEECLFAFKQVFGSLESRTAQVRYLKPQEEGEKVSAYVLRLETL 600

Db 1 DLMIIVQADNPSSIVEECLFAFKQVFGSLESRTAQVRYLKPYYQEEGKVSAYVLRLETL 60

61 LRAVEKRAIPRIADQVRLEOV MAGATLNQMLWCRLRELKDQGP PPSFLELMKVIREEE 120

Db 61 LRAVEKRAIPRIADQVRIEQVMAGATLNQMLWCRLRELKDQGPSPFLMLKVIRREE 120

QY 121 EEEASFENESTIEEPEERDGYGRWNHEGDD 149



Db 121 EEEASFENESIEEPEERDGYGRWNHEGDD 149

RESULT 2  
US-10-037-860-11

/ Sequence 11, Application US/10037860

/ Publication No. US20020123114A1

/ GENERAL INFORMATION:

/ APPLICANT: Jerome B. Posner

/ APPLICANT: Joseph O. Dalmau

/ APPLICANT: Myrna R. Rosenfeld

/ TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA

/ FILE REFERENCE: 2581.1004-004

/ CURRENT APPLICATION NUMBER: US/10/037,860

/ PRIOR FILING DATE: 2001-01-04

/ PRIOR FILING DATE: 1998-11-10

/ NUMBER OF SEQ ID NOS: 14

/ SOFTWARE: FASTSEQ for Windows Version 4.0

/ SEQ ID NO 11

/ LENGTH: 283

/ TYPE: PRT

/ ORGANISM: homo sapiens

US-10-037-860-11

Query Match 98.6%; Score 755; DB 13; Length 283;

Best Local Similarity 98.7%; Pred. No. 1.5e-68;

Matches 147; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 135 DLMHTVQADNPSISVECEAFKQVFGSLERRTAQVRLKPYOEEGKVSAYVLRLETL 60

QY 135 DLMHTVQADNPSISVECEAFKQVFGSLERRTAQVRLKPYOEEGKVSAYVLRLETL 194

Db 61 LRAVAKRAIPRIADQVRLQVMAAGATINQMLMCRLEKQOGPPSPFLMLKVIREE 120

QY 195 LRAVAKRAIPRIADQVRLQVMAAGATINQMLMCRLEKQOGPPSPFLMLKVIREE 254

Db 121 EEEASFENESIEEPEERDGYGRWNHEGDD 149

QY 255 EEEASFENESIEEPEERDGYGRWNHEGDD 283

Db 255 EEEASFENESIEEPEERDGYGRWNHEGDD 283

RESULT 3

US-10-037-860-13

/ Sequence 13, Application US/10037860

/ Publication No. US20020123114A1

/ GENERAL INFORMATION:

/ APPLICANT: Jerome B. Posner

/ APPLICANT: Joseph O. Dalmau

/ APPLICANT: Myrna R. Rosenfeld

/ TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA

/ FILE REFERENCE: 2581.1004-004

/ CURRENT APPLICATION NUMBER: US/10/037,860

/ PRIOR FILING DATE: 2001-01-04

/ PRIOR FILING DATE: 1998-11-10

/ NUMBER OF SEQ ID NOS: 14

/ SOFTWARE: FASTSEQ for Windows Version 4.0

/ SEQ ID NO 13

/ LENGTH: 463

/ TYPE: PRT

/ ORGANISM: homo sapiens

US-10-037-860-13

Query Match 42.2%; Score 323; DB 13; Length 463;

Best Local Similarity 52.7%; Pred. No. 3e-24;

Matches 68; Conservative 26; Mismatches 33; Indels 2; Gaps 1;

QY 6 VQADNPSISVECEAFKQVFGSLERRTAQVRLKPYOEEGKVSAYVLRLETL 65

QY 6 VQADNPSISVECEAFKQVFGSLERRTAQVRLKPYOEEGKVSAYVLRLETL 65

Db 220 LRASNASITVEECLAAQOVFGPVESHKIAQVKLCKAVOEGEKVSFVLRLLEPILOQAV 279

QY 66 EKRAIPRIADQVRLQVMAAGATINQMLMCRLEKQOGPPSPFLMLKVIREEEERAS 125

Db 280 ENNVVSRKRVNQTIRKRVLSGATLPDKLRDKMLKQORRKPFGFLALVKLIRREEMENT 339

QY 126 F--ENESIE 132

Db 340 LQPDRESLE 348

RESULT 4

US-09-965-529-7

/ Sequence 7, Application US/09965529

/ Publication No. US20020182671A1

/ GENERAL INFORMATION:

/ APPLICANT: LAL, Preeti

/ APPLICANT: YUE, Henry

/ APPLICANT: TANG, Y. Tom

/ APPLICANT: BANDMAN, Olga

/ APPLICANT: BURFORD, Neil

/ APPLICANT: AZIMZAI, Yalda

/ APPLICANT: BAUGHN, Mariah R.

/ APPLICANT: LU, Dyang Aina M.

/ APPLICANT: PATTERSON, Chandra

/ TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS

/ FILE REFERENCE: PF-0731 USA

/ CURRENT APPLICATION NUMBER: US/09/965,529

/ PRIOR FILING DATE: 2001-09-26

/ PRIOR FILING DATE: 1999-08-17, 1999-11-09, 2000-08-14

/ NUMBER OF SEQ ID NOS: 74

/ SOFTWARE: PERL Program

/ SEQ ID NO 7

/ LENGTH: 353

/ TYPE: PRT

/ ORGANISM: Homo sapiens

/ FEATURE:

/ NAME/KEY: misc feature

/ OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1

US-09-965-529-7

Query Match 38.6%; Score 295.5; DB 9; Length 353;

Best Local Similarity 46.3%; Pred. No. 1.3e-21;

Matches 62; Conservative 29; Mismatches 36; Indels 7; Gaps 2;

QY 1 DLMHTVQADNPSISVECEAFKQVFGSLERRTAQVRLKPYOEEGKVSAYVLRLETL 60

Db 212 DVIRLKSNPATTAECLKALQVFGSVESSRDQIFLNTYQVPGKLSAYVLRLEPL 271

QY 61 LRAVAKRAIPRIADQVRLQVMAAGATINQMLMCRLEKQOGPPSPFLMLKVI 116

Db 272 LQVVEKALIDKDNVQARLEQVLAGANHSQAIRQLWL---TGAGBPARNLPGLVQI 328

QY 117 REEEASFENES 130

Db 339 REEEAKEEESEABA 342

RESULT 5

US-09-965-680A-7

/ Sequence 7, Application US/09965680A

/ Publication No. US20030124649A1

/ GENERAL INFORMATION:

/ APPLICANT: LAL, Preeti; YUE, Henry

/ APPLICANT: TANG, Y. Tom; BANDMAN, Olga

/ APPLICANT: BURFORD, Neil; AZIMZAI, Yalda

/ APPLICANT: BAUGHN, Mariah R.; LU, Dyang Aina M.

/ APPLICANT: PATTERSON, Chandra

/ TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS

/ FILE REFERENCE: PF-0731-1 USA

/ CURRENT APPLICATION NUMBER: US/09/969,680A

/ PRIOR FILING DATE: 2001-10-02



```

; PRIOR APPLICATION NUMBER: US03/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/439,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7

```

```

Query Match      38.6%; Score 295.5; DB 10; Length 353;
Best Local Similarity 46.3%; Pred. No. 1.3e-21;
Matches 62; Conservative 29; Mismatches 36; Indels 7; Gaps 2;

```

```

Cy 1 DLMHIVADNPSTVEECLEAFKQVFGSLERRTAOVRYLKPYOESEKVSAYVLRLETL 60
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 212 DVIRILKSNPALTTCLEALFOFSGVSSSDAOLTKFNTYQNPGEKLSATVIRLEPL 271
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Cy 61 LRAVEKRAIPRIADQVRLQVWAGATLNMQLCRLRELKQDGPSPFLMLKVIREEE 116
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 272 LQKVEKGAIDKQNVNQAIRLEQVAGNHSGAIRQLMVL---TGAGSGPAPNLFOLLVQI 328
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Cy 117 RESEEESEFENES 130
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 329 RESEAKEEESEEA 342
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

```

```

RESULT 6
US-10-408-765A-2385
; Sequence 2385, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Choesh, Soumitra S.
; APPLICANT: Fany, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Markock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660068.465
; CURRENT APPLICATION NUMBER: US/10/408, 765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2385
; LENGTH: 452
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-2385

```

```

Query Match      37.5%; Score 287; DB 16; Length 452;
Best Local Similarity 43.8%; Pred. No. 1.4e-20;
Matches 63; Conservative 30; Mismatches 43; Indels 8; Gaps 2;

```

```

Cy 2 LHMIVQADNPSTVEECLEAFKQVFGSLERRTAOVRYLKPYOESEKVSAYVLRLETL 61
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 215 IMRVLQANNDSTVEQCLDALKQIFGDEDFRAGQFFPLQSPRIGKVSFPLRLLEPL 274
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Cy 62 RRAVEKRAIPRIADQVRLQVWAGATLNMQLCRLRELKQDGPSPFLMLKVIREEE 121
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 275 QKAVHKSPLSVSRDMLRLKHLARVAMTPALRKLELDDQRCGPFPFLMLKLRIRDEE 334
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Cy 122 ---EEASFENESIEBERDGYR 142
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

```

```

Db 335 WENTEAVMKMK-----EKPSGRGR 353

```

```

RESULT 7
US-10-094-749-1978
; Sequence 1978, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKI, ICHIRO
; APPLICANT: SEKI, NAOHITO
; APPLICANT: YOSHITAKA, TSUTOMU
; APPLICANT: OTSUKA, MOTOHYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIRO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094, 749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350, 435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1978
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-1978

```

```

Query Match      36.2%; Score 277; DB 15; Length 399;
Best Local Similarity 43.5%; Pred. No. 1.2e-19;
Matches 60; Conservative 30; Mismatches 48; Indels 0; Gaps 0;

```

```

Cy 2 LHMIVQADNPSTVEECLEAFKQVFGSLERRTAOVRYLKPYOESEKVSAYVLRLETL 61
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 208 LVHALLAENPARKAQQCLAAQVFDNDSQATIRVKCLTAQQGSEKLSAFVLRLEVL 267
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Cy 62 RRAVEKRAIPRIADQVRLQVWAGATLNMQLCRLRELKQDGPSPFLMLKVIREEE 121
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 268 QKAMEKALARSADNVRIRQLMTRAHLPEDEARLKLUMGRSPSFLMLGLVSEEA 327
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Cy 122 EEASFENESIEBERDGY 139
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 328 WEASLARVVAQTOGAG 345
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

```

```

RESULT 8
US-09-965-529-1
; Sequence 1, Application US/09965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: Lal, Preci
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. TOM
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dyrng Aina M.
; APPLICANT: PATTERSON, Chandra

```



```

/ TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
/ FILE REFERENCE: PF-0731 USA
/ CURRENT APPLICATION NUMBER: US/09/965,529
/ PRIOR FILING DATE: 2001-09-26
/ PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
/ PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
/ NUMBER OF SEQ ID NOS: 74
/ SOFTWARE: PERL Program
/ SEQ ID NO 1
/ LENGTH: 351
/ TYPE: PRF
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: Incyte ID No. US20020182671A1 112301CD1
US-09-965-529-1

```

```

Query Match      35.4%; Score 271.5; DB 9; Length 351;
Best Local Similarity 44.6%; Pred. No. 3,7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

QY 1 DLMHIVQADNPSTSYVEECLEAFKQVFGSLBSRRRTAQVRYLKPYQEGEGKVSAYVLRLETL 60
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 216 DVIRVLKINNPITVDECIQALEEVFGVTDNPRELQVRYLTYYQKDEKLSAYVLRLEPL 275
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 61 LRAVAKAIPRIADQVRLQVWAGA---TLNQMLMCRLELTKQGPSPFLMLKVIYR 117
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 276 LQKLVQGAIERDAVNAQARLDQVYAGAVHKTIIRREL-----NLPEDGAPAGFLQLVLVIK 330
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 118 E---EEEEEA 124
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 331 DYEAAREEEEA 340
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 9

```

US-09-804-014A-16
/ Sequence 16; Application US/09804014A
/ Publication No. US2003006489A1
/ GENERAL INFORMATION:
/ APPLICANT: LI, Li
/ APPLICANT: Padigaru, Muralidhara
/ APPLICANT: Vernet, Corine
/ APPLICANT: Fernandez, Elma
/ APPLICANT: Shimkets, Richard
/ APPLICANT: Spaderna, Steven
/ APPLICANT: Majumder, Kumud
/ TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
/ FILE REFERENCE: 15966-721 US
/ CURRENT APPLICATION NUMBER: US/09/804,014A
/ CURRENT FILING DATE: 2002-04-24
/ PRIOR APPLICATION NUMBER: 60/188,316
/ PRIOR FILING DATE: 2000-03-10
/ PRIOR APPLICATION NUMBER: 60/188,277
/ PRIOR FILING DATE: 2000-03-10
/ PRIOR APPLICATION NUMBER: 60/189,139
/ PRIOR FILING DATE: 2000-03-14
/ PRIOR APPLICATION NUMBER: 60/189,140
/ PRIOR FILING DATE: 2000-03-14
/ PRIOR APPLICATION NUMBER: 60/190,401
/ PRIOR FILING DATE: 2000-03-17
/ PRIOR APPLICATION NUMBER: 60/190,231
/ PRIOR FILING DATE: 2000-03-17
/ NUMBER OF SEQ ID NOS: 75
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 16
/ LENGTH: 351
/ TYPE: PRF
/ ORGANISM: Homo sapiens
US-09-804-014A-16

```

```

Query Match      35.4%; Score 271.5; DB 10; Length 351;
Best Local Similarity 44.6%; Pred. No. 3,7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

```

```

QY 1 DLMHIVQADNPSTSYVEECLEAFKQVFGSLBSRRRTAQVRYLKPYQEGEGKVSAYVLRLETL 60
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 216 DVIRVLKINNPITVDECIQALEEVFGVTDNPRELQVRYLTYYQKDEKLSAYVLRLEPL 275
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 61 LRAVAKAIPRIADQVRLQVWAGA---TLNQMLMCRLELTKQGPSPFLMLKVIYR 117
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 276 LQKLVQGAIERDAVNAQARLDQVYAGAVHKTIIRREL-----NLPEDGAPAGFLQLVLVIK 330
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 118 E---EEEEEA 124
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 331 DYEAAREEEEA 340
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 10

```

US-09-969-680A-1
/ Sequence 1; Application US/09969680A
/ Publication No. US20030124649A1
/ GENERAL INFORMATION:
/ APPLICANT: LAL, Preeti; YUE, Henry
/ APPLICANT: TANG, Y. Tom; BANDMAN, Olga
/ APPLICANT: BUREFORD, Neil; AZIMZAI, Yalda
/ APPLICANT: BAUGHN, Mariah R.; LU, Dying Aina M.
/ APPLICANT: PATTERSON, Chandra
/ TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
/ FILE REFERENCE: PF-0731-1 USA
/ CURRENT APPLICATION NUMBER: US/09/969,680A
/ CURRENT FILING DATE: 2001-10-02
/ PRIOR APPLICATION NUMBER: US00/22315
/ PRIOR FILING DATE: 2000-08-14
/ PRIOR APPLICATION NUMBER: 60/149,641
/ PRIOR FILING DATE: 1999-08-17
/ PRIOR APPLICATION NUMBER: 60/164,203
/ PRIOR FILING DATE: 1999-11-09
/ NUMBER OF SEQ ID NOS: 74
/ SOFTWARE: PERL Program
/ SEQ ID NO 1
/ LENGTH: 351
/ TYPE: PRF
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: Incyte ID No. US20030124649A1 112301CD1
US-09-969-680A-1

```

```

Query Match      35.4%; Score 271.5; DB 10; Length 351;
Best Local Similarity 44.6%; Pred. No. 3,7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

QY 1 DLMHIVQADNPSTSYVEECLEAFKQVFGSLBSRRRTAQVRYLKPYQEGEGKVSAYVLRLETL 60
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 216 DVIRVLKINNPITVDECIQALEEVFGVTDNPRELQVRYLTYYQKDEKLSAYVLRLEPL 275
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 61 LRAVAKAIPRIADQVRLQVWAGA---TLNQMLMCRLELTKQGPSPFLMLKVIYR 117
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 276 LQKLVQGAIERDAVNAQARLDQVYAGAVHKTIIRREL-----NLPEDGAPAGFLQLVLVIK 330
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 118 E---EEEEEA 124
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 331 DYEAAREEEEA 340
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

```

RESULT 11
US-10-341-434-10
/ Sequence 10; Application US/10341434
/ Publication No. US20030215835A1
/ GENERAL INFORMATION:
/ APPLICANT: Origene Technologies
/ TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes
/ FILE REFERENCE: 9U 204 205 R1
/ CURRENT APPLICATION NUMBER: US/10/341,434
/ CURRENT FILING DATE: 2003-07-18
/ PRIOR APPLICATION NUMBER: US 60/348,164

```



```
;; PRIOR FILING DATE: 2002-01-15
;; PRIOR APPLICATION NUMBER: US 60/348,119
;; PRIOR FILING DATE: 2002-01-15
;; NUMBER OF SEQ ID NOS: 238
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 10
;; LENGTH: 351
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-341-434-10

Query Match      35.4%; Score 271.5; DB 15; Length 351;
Best Local Similarity 44.6%; Pred. No. 3.7e-19;
Matches 58; Conservative 32; Mismatches 29; Indels 11; Gaps 3;

Qy 1 DLMIYQADNPISVECELEAFKQVFGSLSSRRTAQVRYLKPYQEEGKVSAYVLRLETL 60
Db 216 DVIRILKNNPALTTCALAEVFTVDNPRELQKYLITTYQKDEKLSAYVLRLEPL 275
61 LRAVEKRAIPRIADQVRLEQVWAGA---TLNQMLMCRRLKDGPPPSFLMKVIR 117
276 LQKLVQGAERDAVNGARLDQVIAGAVHKTIRREL-----NLPEDGPAPGFLOLVLIK 330
Qy 118 E---EEEEE 124
Db 331 DYEAEEEEA 340

RESULT 12
US-10-037-860-4
;; Sequence 4, Application US/10037860
;; Publication No. US20020123114A1
;; GENERAL INFORMATION:
;; APPLICANT: Jerome B. Posner
;; APPLICANT: Joseph O. Palmar
;; APPLICANT: Myrna R. Rosenfeld
;; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
;; FILE REFERENCE: 2581.1004-004
;; CURRENT APPLICATION NUMBER: US/10/037,860
;; PRIOR FILING DATE: 2001-01-04
;; PRIOR APPLICATION NUMBER: 09/189,527
;; PRIOR FILING DATE: 1998-11-10
;; NUMBER OF SEQ ID NOS: 14
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 4
;; LENGTH: 329
;; TYPE: PRT
;; ORGANISM: homo sapiens
US-10-037-860-4

Query Match      33.5%; Score 256.5; DB 13; Length 329;
Best Local Similarity 46.6%; Pred. No. 1.2e-17;
Matches 54; Conservative 25; Mismatches 30; Indels 7; Gaps 2;

Qy 1 DLMIYQADNPISVECELEAFKQVFGSLSSRRTAQVRYLKPYQEEGKVSAYVLRLETL 60
Db 212 DVIRILKNNPALTTCALAEVFTVDNPRELQKYLITTYQKDEKLSAYVLRLEPL 271
61 LRAVEKRAIPRIADQVRLEQVWAGA---TLNQMLMCRRLKDGPPPSFLMKVIR 112
272 LQKLVQGAERDAVNGARLDQVIAGAVHKTIRREL-----TGAGSGPGKPLSV 324

RESULT 13
US-09-804-014A-40
;; Sequence 40, Application US/09804014A
;; Publication No. US20030064489A1
;; GENERAL INFORMATION:
;; APPLICANT: Li, Li
;; APPLICANT: Padigaru, Muralidhara
;; APPLICANT: Vernet, Corine
;; APPLICANT: Fernandes, Elma
```

```
;; APPLICANT: Shinkets, Richard
;; APPLICANT: Spaderna, Steven
;; APPLICANT: Majumder, Kumud
;; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
;; FILE REFERENCE: 15966-721 US
;; CURRENT APPLICATION NUMBER: US/09/804,014A
;; PRIOR FILING DATE: 2002-04-24
;; PRIOR APPLICATION NUMBER: 60/188,316
;; PRIOR FILING DATE: 2000-03-10
;; PRIOR APPLICATION NUMBER: 60/188,277
;; PRIOR FILING DATE: 2000-03-10
;; PRIOR APPLICATION NUMBER: 60/189,139
;; PRIOR FILING DATE: 2000-03-14
;; PRIOR APPLICATION NUMBER: 60/189,140
;; PRIOR FILING DATE: 2000-03-14
;; PRIOR APPLICATION NUMBER: 60/190,401
;; PRIOR FILING DATE: 2000-03-17
;; PRIOR APPLICATION NUMBER: 60/190,231
;; PRIOR FILING DATE: 2000-03-17
;; NUMBER OF SEQ ID NOS: 75
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 40
;; LENGTH: 318
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: VARIANT
;; LOCATION: (20)
;; OTHER INFORMATION: Wherein Xaa is any amino acid as defined in the
;; OTHER INFORMATION: specification
US-09-804-014A-40

Query Match      33.3%; Score 255; DB 10; Length 318;
Best Local Similarity 51.0%; Pred. No. 1.6e-17;
Matches 50; Conservative 23; Mismatches 21; Indels 4; Gaps 1;

Qy 1 DLMIYQADNPISVECELEAFKQVFGSLSSRRTAQVRYLKPYQEEGKVSAYVLRLETL 60
Db 212 DVIRILKNNPALTTCALAEVFTVDNPRELQKYLITTYQKDEKLSAYVLRLEPL 271
61 LRAVEKRAIPRIADQVRLEQVWAGA---TLNQMLM 94
272 LQKLVQGAERDAVNGARLDQVIAGAVHKTIRREL 309

RESULT 14
US-10-094-466-38
;; Sequence 38, Application US/10094466
;; Publication No. US2003020363A1
;; GENERAL INFORMATION:
;; APPLICANT: Spytek et al.
;; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM
;; FILE REFERENCE: 21402-280D
;; CURRENT APPLICATION NUMBER: US/10/094,466
;; PRIOR FILING DATE: 2002-03-07
;; PRIOR APPLICATION NUMBER: 60/274,281
;; PRIOR FILING DATE: 2001-03-08
;; PRIOR APPLICATION NUMBER: 60/288,148
;; PRIOR FILING DATE: 2001-05-02
;; PRIOR APPLICATION NUMBER: 60/274,849
;; PRIOR FILING DATE: 2001-03-09
;; PRIOR APPLICATION NUMBER: 60/275,235
;; PRIOR FILING DATE: 2001-03-12
;; PRIOR APPLICATION NUMBER: 60/338,375
;; PRIOR FILING DATE: 2001-12-04
;; PRIOR APPLICATION NUMBER: 60/275,579
;; PRIOR FILING DATE: 2001-03-13
;; PRIOR APPLICATION NUMBER: 60/335,302
;; PRIOR FILING DATE: 2001-10-31
;; PRIOR APPLICATION NUMBER: 60/275,601
;; PRIOR FILING DATE: 2001-03-13
```



```

, PRIOR APPLICATION NUMBER: 60,276,000
, PRIOR FILING DATE: 2001-03-14
, PRIOR APPLICATION NUMBER: 60/277,338
, PRIOR FILING DATE: 2001-03-20
, PRIOR Application data removed - See File Wrapper or PALM
, NUMBER OF SEQ ID NOS: 114
, SOFTWARE: PatIn 2.1
, SEQ ID NO 38
, LENGTH: 403
, TYPE: PRT
, ORGANISM: Homo sapiens
US-10-094-466-38

```

Query Match	32.3%;	Score 247.5;	DB 15;	Length 403;
Best Local Similarity	42.0%;	Pred. No. 1.2e-16;		
Matches 55;	Conservative 28;	Mismatches 43;	Indels 5;	Gaps 1;

Qy	DLAHITVQADNPSTSVEECEAEKQVFGSLSESRTQVYILPQVEGGKVAAYLTRETL	60
Db	EVRLRLQANPNLSVADFLRKMLVFGESESVTHGRFNTLQDQGEKASTLYIRLEVQ	155
Qy	LRRAVEKPAIPRIIAQVRLVEQVMGATLIMQLMGRLEL-----KQGGPSPSLETLMKY	115
Db	LQNALIQAGLAECDANQTRLQOULLGALENLRDLRFRLKHLRMTANKQERLPNPLEIKM	215
Qy	IRREEEERASF	126
Db	IRREESWDDAF	226

```

1 RESULT 15
2 US-10-296-115-1208
3 ; Sequence 1208, Application US/0296115
4 ; Publication No. US20040053248A1
5 ; GENERAL INFORMATION:
6 ; APPLICANT: Hyseq, Inc
7 ; TITLE OF INVENTION: No. US20040053248A1 Nucleic Acids and Polypeptides
8 ; FILE REFERENCE: 784PCT
9 ; CURRENT APPLICATION NUMBER: US/10/296,115
10 ; CURRENT FILING DATE: 2002-11-18
11 ; PRIOR APPLICATION NUMBER: US09/488,725
12 ; PRIOR FILING DATE: 2000-01-21
13 ; PRIOR APPLICATION NUMBER: US09/552,117
14 ; PRIOR FILING DATE: 2000-04-25
15 ; NUMBER OF SEQ ID NOS: 1478
16 ; SEQ ID NO 1208
17 ; LENGTH: 317
18 ; TYPE: PRT
19 ; ORGANISM: Homo sapiens
20 ; US-10-296-115-1208

```

Query Match	31.3%	Score 240;	DB 15;	Length 337;
Best Local Similarity	37.2%	Pred. No. 5.8e-16;		
Matches 54; Conservative	34;	Mismatches 45;	Indels 12;	Gaps 2;

```

Cy 1 DLHHIYQANPISIVSECLAEAKQVFGSLSESRTQAVYLCPYQEEGKSAAYLRTEL 60
      :::::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 80 EVKRVYQATNPILSVADFLRAWKLYFGESESSVTYHAGKFFNTLQAQEKASLYVIREVQ 139
      :::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Cy 61 LRAVYKAIIPPRIDQVRLBQVMAQTLNQMCLREL-----KQGGPPSTLELMKV 115
      :::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 140 LQNAHIAQAGIAEDARFTLQOOLLGESLRDLRLKDLFURMYANEORLPNLFELIKM 199
      :::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Cy 116 IRREEEESAF-----ENESIEE 133
      :::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 200 VREEDMDDAFTKRRKPKSESME 224
      :::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|

```

Search completed: April 8, 2005, 13:35:14  
Job time : 34.2861 BECS



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using SW model

Run on: April 8, 2005, 12:40:26 ; Search time 63.2213 Seconds

(without alignments)  
1486.133 Million cell updates/sec

Title: US-10-037-860-11  
Perfect score: 1462  
Sequence: 1 VQGGGWKVIYFKTPNDTE.....SIEPEERDGYRWNHGDD 283

Scoring table: BLASTN62  
Gapop 10.0 , Gapext 0.5

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications\_AA:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCIT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCITUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1462	100.0	283	13: US-10-037-860-11	Sequence 11, Appl
2	755	51.6	149	13: US-10-037-860-9	Sequence 9, Appl
3	628	43.0	353	9: US-09-965-529-7	Sequence 7, Appl
4	628	43.0	353	10: US-09-969-680A-7	Sequence 7, Appl
5	618.5	42.3	463	13: US-10-037-860-13	Sequence 13, Appl
6	597	40.8	452	16: US-10-408-765A-2385	Sequence 13, Appl
7	596.5	40.8	351	9: US-09-965-529-1	Sequence 11, Appl
8	596.5	40.8	351	10: US-09-804-014A-16	Sequence 16, Appl
9	596.5	40.8	351	10: US-09-969-680A-1	Sequence 11, Appl
10	596.5	40.8	351	15: US-10-341-434-10	Sequence 10, Appl
11	593	40.6	195	13: US-10-037-860-7	Sequence 7, Appl
12	564	38.6	329	13: US-10-037-860-4	Sequence 4, Appl
13	562.5	38.5	318	10: US-09-804-014A-40	Sequence 40, Appl

14	560	38.3	321	10	US-09-804-014A-39	Sequence 39, Appl
15	550	37.6	312	10	US-09-804-014A-73	Sequence 73, Appl
16	550	37.6	312	10	US-09-804-014A-74	Sequence 74, Appl
17	475.5	32.5	399	15	US-10-094-749-1978	Sequence 1978, Ap
18	394	26.9	403	15	US-10-094-466-38	Sequence 38, Appl
19	380.5	26.0	402	17	US-10-959-539-26	Sequence 26, Appl
20	378.5	25.9	337	15	US-10-296-115-1208	Sequence 1208, Ap
21	215	14.7	120	10	US-09-804-014A-42	Sequence 42, Appl
22	156.5	10.7	204	14	US-10-029-386-33747	Sequence 33747, A
23	123	8.4	120	10	US-09-804-014A-41	Sequence 41, Appl
24	117	8.0	538	16	US-10-408-765A-2392	Sequence 2392, Ap
25	113	7.7	283	14	US-10-082-830-260	Sequence 260, App
26	110.5	7.6	584	15	US-10-291-172-355	Sequence 355, App
27	110.5	7.6	584	15	US-10-221-278-355	Sequence 355, App
28	107	7.3	1031	11	US-09-764-875-685	Sequence 685, App
29	107	7.3	1035	15	US-10-158-057-197	Sequence 197, App
30	107	7.3	1459	16	US-10-408-765A-2246	Sequence 2246, App
31	106	7.3	542	15	US-10-205-331-57	Sequence 57, Appl
32	105.5	7.2	758	15	US-10-282-122A-67949	Sequence 67949, A
33	102.5	7.0	879	15	US-10-282-122A-60655	Sequence 60655, A
34	102	7.0	116	9	US-09-864-761-34645	Sequence 34645, A
35	102	7.0	225	10	US-09-764-891-4172	Sequence 4172, Ap
36	101.5	6.9	788	14	US-10-128-714-8204	Sequence 8204, Ap
37	100	6.8	750	14	US-10-410-681-12	Sequence 12, Appl
38	100	6.8	1082	16	US-10-437-963-162190	Sequence 162190, A
39	99.5	6.8	860	15	US-10-080-334-166	Sequence 166, App
40	99.5	6.8	860	15	US-10-072-012-838	Sequence 838, App
41	99.5	6.8	860	15	US-10-037-417-59	Sequence 59, Appl
42	99	6.8	342	15	US-10-425-114-71718	Sequence 71718, A
43	99	6.8	750	15	US-10-424-599-268662	Sequence 268662, A
44	98.5	6.7	520	15	US-10-220-381-12	Sequence 12, Appl
45	98	6.7	1070	14	US-10-420-845-22	Sequence 22, Appl

## ALIGNMENTS

RESULT 1	US-10-037-860-11
Sequence 11, Application US/10037860	
Publication No. US20020123114A1	
GENERAL INFORMATION:	
APPLICANT: Jerome B. Posner	
APPLICANT: Joseph O. Dalmiau	
APPLICANT: Myrna R. Rosenfeld	
TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA	
TITLE OF INVENTION: ANTIBODIES	
FILE REFERENCE: 2581.1004-004	
CURRENT APPLICATION NUMBER: US/10/037,860	
CURRENT FILING DATE: 2001-01-04	
PRIOR APPLICATION NUMBER: 09/189,527	
PRIOR FILING DATE: 1998-11-10	
NUMBER OF SEQ ID NOS: 14	
SOFTWARE: FASTSEQ for Windows Version 4.0	
SEQ ID NO 11	
LENGTH: 283	
TYPE: PRT	
ORGANISM: homo sapiens	
US-10-037-860-11	
Query Match	100.0%; Score 1462; DB 13; Length 283;
Best Local Similarity	100.0%; Pred. No. 2,5e-120;
Matches 283; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1 VQGGGWKVIYFKTPNDTEFLRLNLFLEKEQTVSGMFRALGQGVSPATVPCISPEL 60
Db	1 VQGGGWKVIYFKTPNDTEFLRLNLFLEKEQTVSGMFRALGQGVSPATVPCISPEL 60
Qy	1 LAHLIGQAMAHAPQPLPKMYRKLRFVSSGAVPAPEESFEVWLLEQATEIVKMPYTEAB 120
Db	61 LAHLIGQAMAHAPQPLPKMYRKLRFVSSGAVPAPEESFEVWLLEQATEIVKMPYTEAB 120
Qy	121 KCGWLESLGRLDLMHIVQADNPSTISVECCLEAKQVFGSLDSRTAQRVLYLKYORE 180



```

Db      121 KRWLAESLRGPAALDLMH:VQADNPISVBECLAFKQVFGSLERRTAQRVYLKTYOEB 180
      181 GKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPP 240
      181 GKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPP 240
      241 PSFLELMKYIRREEREEASFNESIEBPERRDYGKRWNHGGD 283
      241 PSFLELMKYIRREEREEASFNESIEBPERRDYGKRWNHGGD 283

```

## RESULT 2

```

US-10-037-860-9
; Sequence 9, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Pomeroy
; APPLICANT: Joseph O. Dalmay
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
; FILE REFERENCE: 2581.1004-004.1
; CURRENT APPLICATION NUMBER: US/10/037,860
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 149
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-9

```

```

Query Match      51.6%; Score 755; DB 13; Length 149;
Best Local Similarity 98.7%; Pred. No. 1.8e-58;
Matches 147; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      135 DLMHIVQADNPISVBECLAFKQVFGSLERRTAQRVYLKTYOEGEKVAVYLRLETL 194
      1 DLMHIVQADNPISVBECLAFKQVFGSLERRTAQRVYLKTYOEGEKVAVYLRLETL 60
QY      195 LKRAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPPPSFLELMKYIRRE 254
      61 LKRAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPPPSFLELMKYIRRE 120
QY      255 EEBASFNESIEBPERRDYGKRWNHGGD 283
      121 EEBASFNESIEBPERRDYGKRWNHGGD 149
Db

```

## RESULT 3

```

US-09-965-529-7
; Sequence 7, Application US/0965529
; Publication No. US20020182671A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731 USA
; CURRENT APPLICATION NUMBER: US/09/965,529
; PRIOR FILING DATE: 2001-05-26
; PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
; PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
; NUMBER OF SEQ ID NOS: 74

```

```

; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 2483172CD1
US-09-965-529-7

```

```

Query Match      43.0%; Score 628; DB 9; Length 353;
Best Local Similarity 47.9%; Pred. No. 9e-47;
Matches 128; Conservative 52; Mismatches 75; Indels 12; Gaps 4;

```

```

QY      3 GKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPP 62
      83 GKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPP 138
      63 HLQQAHAHAPQPL-PMRYRKLRFVSGSAVPADEESFEVWLEQATEIVKEMVPTAEK 121
      139 EMLNVIIDNVIQPLVESIWKRLTLFGGRDIPCGEETFPWLEHTNEVLEWQSDVEK 198
QY      122 KRWLAESLRGPAALDLMH:VQADNPISVBECLAFKQVFGSLERRTAQRVYLKTYOEG 181
      199 RRLMESLRGPAADVIRILSNPNATTAETCLALQVFGSVESSRDAQIKFLNTYQPG 258
QY      182 EKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQD 237
      259 EKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQD 315
QY      238 GPPPSFLELMKYIRREEREEASFNES 264
      316 GPAPNLFQLIVQIREEREEASFNES 342
Db

```

## RESULT 4

```

US-09-969-680A-7
; Sequence 7, Application US/09969680A
; Publication No. US20030124649A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti; YUE, Henry
; APPLICANT: TANG, Y. Tom; BANDMAN, Olga
; APPLICANT: BURFORD, Neil; AZIMZAI, Yalda
; APPLICANT: BAUGHN, Mariah R.; LU, Dying Aina M.
; APPLICANT: PATTERSON, Chandra
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0731-1 USA
; CURRENT APPLICATION NUMBER: US/09/969,680A
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US00/22315
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/149,641
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/164,203
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030124649A1 2483172CD1
US-09-969-680A-7

```

```

Query Match      43.0%; Score 628; DB 10; Length 353;
Best Local Similarity 47.9%; Pred. No. 9e-47;
Matches 128; Conservative 52; Mismatches 75; Indels 12; Gaps 4;
QY      3 GKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPP 62
      83 GKQVAVYLRLETLTKRKAVERKAIIPRIADQVRLQVWAGATLNMCLRLKDLKQDPP 138

```







Query Match 40.8%; Score 596.5; DB 9; Length 351;  
 Best Local Similarity 48.3%; Pred. No. 5.3e-44;  
 Matches 128; Conservative 49; Mismatches 75; Indels 13; Gaps 5;

QY 1 VQKGGVWVIFKTPNQTFFLERLNLFLKEGQTVSGMFRALGOEGVSPATVPCISPEL 60  
 DB 82 IPKGGIMRWVIFKPPDPNTFLSRINEFLAGSGMTVGLSRALGHENSLDPEOGMIPFM 141  
 QY 61 LAHLGQAMAHAPOLLP-MRYKRLVFGSAVPAPEESFEVWLEQATEIVKEMPVTEA 119  
 DB 142 WAPMLAQL-ELQPALQCLTKYKLVFSGRESPEEGEEFGWMHTTQMIKAMQVDPV 200

QY 120 EKKRWLAESLRGPAIDLMHIYQADNPISIVECELEAFKQVFGSLESRRTAQVRYLYKTYOE 179  
 DB 201 EKKRRLESLSRGPAIDVIRLVKINNPLITVECTQALEVEFGVDNPRELQVKYLTYYOK 260

QY 180 EGEKSAVYLRLETLTKRAVEKRALPRRIADQVRLQVWAGA---TLNQMLCRLREKD 236  
 DB 261 DEEKSAVYLRLEPLQKLVORGAIERDAVQARLDQVIAAGVHKTIIRREL-----NLPE 315

QY 237 OGPPSPFLMKVIRE---EEEEEA 258  
 DB 316 DGPAFGFLQVLVLKDYEAABEEEA 340

RESULT 8  
 US-09-804-014A-16  
 ; Sequence 16, Application US/09804014A  
 ; Publication No. US20030064489A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LA, LA  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Vernet, Corine  
 ; APPLICANT: Fernandes, Elma  
 ; APPLICANT: Shinkets, Richard  
 ; APPLICANT: Spaderma, Steven  
 ; APPLICANT: Majumder, Kumud  
 ; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 ; FILE REFERENCES: 15966-721 US  
 ; CURRENT APPLICATION NUMBER: US/09/804, 014A  
 ; CURRENT FILING DATE: 2002-04-24  
 ; PRIOR APPLICATION NUMBER: 60/188, 316  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 60/188, 277  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 60/189, 139  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/189, 140  
 ; PRIOR FILING DATE: 2000-03-14  
 ; PRIOR APPLICATION NUMBER: 60/190, 401  
 ; PRIOR FILING DATE: 2000-03-17  
 ; PRIOR APPLICATION NUMBER: 60/190, 231  
 ; PRIOR FILING DATE: 2000-03-17  
 ; NUMBER OF SEQ ID NOS: 75  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 16  
 ; LENGTH: 351  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-804-014A-16

Query Match 40.8%; Score 596.5; DB 10; Length 351;  
 Best Local Similarity 48.3%; Pred. No. 5.3e-44;  
 Matches 128; Conservative 49; Mismatches 75; Indels 13; Gaps 5;

QY 1 VQKGGVWVIFKTPNQTFFLERLNLFLKEGQTVSGMFRALGOEGVSPATVPCISPEL 60  
 DB 82 IPKGGIMRWVIFKPPDPNTFLSRINEFLAGSGMTVGLSRALGHENSLDPEOGMIPFM 141  
 QY 61 LAHLGQAMAHAPOLLP-MRYKRLVFGSAVPAPEESFEVWLEQATEIVKEMPVTEA 119  
 DB 142 WAPMLAQL-ELQPALQCLTKYKLVFSGRESPEEGEEFGWMHTTQMIKAMQVDPV 200

QY 120 EKKRWLAESLRGPAIDLMHIYQADNPISIVECELEAFKQVFGSLESRRTAQVRYLYKTYOE 179  
 DB 201 EKKRRLESLSRGPAIDVIRLVKINNPLITVECTQALEVEFGVDNPRELQVKYLTYYOK 260

QY 180 EGEKSAVYLRLETLTKRAVEKRALPRRIADQVRLQVWAGA---TLNQMLCRLREKD 236  
 DB 261 DEEKSAVYLRLEPLQKLVORGAIERDAVQARLDQVIAAGVHKTIIRREL-----NLPE 315

QY 237 OGPPSPFLMKVIRE---EEEEEA 258  
 DB 316 DGPAFGFLQVLVLKDYEAABEEEA 340

RESULT 9  
 US-09-969-680A-1  
 ; Sequence 1, Application US/09969680A  
 ; Publication No. US20030124649A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LAL, Preeti; YUE, Henry  
 ; APPLICANT: TANG, Y. Tom; BANDMAN, Olga  
 ; APPLICANT: BUREFORD, Neil; AZIMZAI, Yalda  
 ; APPLICANT: BAUGHN, Mariah R.; LU, Dyung Aina M.  
 ; APPLICANT: PATTERSON, Chandra  
 ; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS  
 ; FILE REFERENCE: PE-0731-1 USA  
 ; CURRENT APPLICATION NUMBER: US/09/969, 680A  
 ; CURRENT FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US00/22315  
 ; PRIOR FILING DATE: 2000-08-14  
 ; PRIOR APPLICATION NUMBER: 60/149, 641  
 ; PRIOR FILING DATE: 1999-08-17  
 ; PRIOR APPLICATION NUMBER: 60/164, 203  
 ; PRIOR FILING DATE: 1999-11-09  
 ; NUMBER OF SEQ ID NOS: 74  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 1  
 ; LENGTH: 351  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; OTHER INFORMATION: Incyte ID No. US20030124649A1 112301CD1  
 ; US-09-969-680A-1

Query Match 40.8%; Score 596.5; DB 10; Length 351;  
 Best Local Similarity 48.3%; Pred. No. 5.3e-44;  
 Matches 128; Conservative 49; Mismatches 75; Indels 13; Gaps 5;

QY 1 VQKGGVWVIFKTPNQTFFLERLNLFLKEGQTVSGMFRALGOEGVSPATVPCISPEL 60  
 DB 82 IPKGGIMRWVIFKPPDPNTFLSRINEFLAGSGMTVGLSRALGHENSLDPEOGMIPFM 141  
 QY 61 LAHLGQAMAHAPOLLP-MRYKRLVFGSAVPAPEESFEVWLEQATEIVKEMPVTEA 119  
 DB 142 WAPMLAQL-ELQPALQCLTKYKLVFSGRESPEEGEEFGWMHTTQMIKAMQVDPV 200

QY 120 EKKRWLAESLRGPAIDLMHIYQADNPISIVECELEAFKQVFGSLESRRTAQVRYLYKTYOE 179  
 DB 201 EKKRRLESLSRGPAIDVIRLVKINNPLITVECTQALEVEFGVDNPRELQVKYLTYYOK 260

QY 180 EGEKSAVYLRLETLTKRAVEKRALPRRIADQVRLQVWAGA---TLNQMLCRLREKD 236  
 DB 261 DEEKSAVYLRLEPLQKLVORGAIERDAVQARLDQVIAAGVHKTIIRREL-----NLPE 315

QY 237 OGPPSPFLMKVIRE---EEEEEA 258  
 DB 316 DGPAFGFLQVLVLKDYEAABEEEA 340

RESULT 10  
 US-10-341-434-10  
 ; Sequence 10, Application US/10341434



```

; Publication No. US2003021583A1
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies
; TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes
; FILE REFERENCE: 9U 204 205 R1
; CURRENT APPLICATION NUMBER: US/10/341,434
; PRIOR FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/348,164
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: US 60/348,119
; PRIOR FILING DATE: 2002-01-15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-341-434-10

```

Query Match 40.8%; Score 596.5; DB 15; Length 351;

Best Local Similarity 48.3%; Pred. No. 5.3e-44; Matches 128; Conservative 49; Mismatches 75; Indels 13; Gaps 5;

```

Qy 1 VGGKGVWVIFKTPNODTEFLERLNFLEKEGQTVSGMFRALGQGVSPATVPCISPEL 60
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 82 IEGKGGWVIFKPPDPDNTFLSRLEFLAGEMTGELSRLGHEGSLDEECGMIPDM 141
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 61 LAHLGQMAHAPOPLP-PRYRKLRFVSGSAVPAPPEESFEVWLQATEIYKEMPVTEA 119
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 142 WAPMLAQAL-EALQPLAQCLTKKLRVSGSPERSEEFGRMHTTOMIKANQPDV 200
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 120 EKRWLAESLRGPAALDLMHIVQADNPISVEECLEAFKQVFGSLSRRTAQRVLYKTYOE 179
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 201 EKRRRLSELRGPAALDIVIKINNPDLIVDECLQLEEVFGVTQNPRLQVLYLTYYOK 260
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 180 ESEKTSAYVLRLETLRKAVEKRAIPRRIRADQVRLQVMAQA---TLNOMLMCRRLKLD 236
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 261 DEEKLSAYVLRLEPLQKLVORCAIERDAVNQARLDQVIAQVHNTIRREL-----HLLPR 315
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 237 GGPSPSFLKMKVIRE---EESEEA 258
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 316 DGPAPGQLQLLVLIKDYEAEESEA 340
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:

```

# RESULT 11

```

US-10-037-860-7
; Sequence 7, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmat
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 195
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-7

```

Query Match 40.6%; Score 593; DB 13; Length 195;

Best Local Similarity 98.3%; Pred. No. 4.9e-44; Matches 113; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

Qy 1 VGGKGVWVIFKTPNODTEFLERLNFLEKEGQTVSGMFRALGQGVSPATVPCISPEL 60
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:

```

```

Db 81 VGGKGVWVIFKTPNODTEFLERLNFLEKEGQTVSGMFRALGQGVSPATVPCISPEL 140
Qy 61 LAHLGQMAHAPOPLP-PRYRKLRFVSGSAVPAPPEESFEVWLQATEIYKEMP 115
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 141 LAHLGQMAHAPOPLP-PRYRKLRFVSGSAVPAPPEESFEVWLQATEIYKEMP 195
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:

```

## RESULT 12

```

US-10-037-860-4
; Sequence 4, Application US/10037860
; Publication No. US20020123114A1
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Joseph O. Dalmat
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 2581.1004-004
; CURRENT APPLICATION NUMBER: US/10/037,860
; CURRENT FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 09/189,527
; PRIOR FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-037-860-4

```

Query Match 38.6%; Score 564; DB 13; Length 329;

Best Local Similarity 47.0%; Pred. No. 3.5e-41; Matches 117; Conservative 47; Mismatches 73; Indels 12; Gaps 4;

```

Qy 3 GKGGVWVIFKTPNODTEFLERLNFLEKEGQTVSGMFRALGQGVSPATVPCISPEL 62
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 83 GKGGVWVIFKTPNODTEFLERLNFLEKEGQTVQDVAVRGFQNPVTPP---GPEMPA 138
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 63 LAHLGQMAHAPOPLP-PRYRKLRFVSGSAVPAPPEESFEVWLQATEIYKEMPVTEAK 121
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 139 EMLNTIILNVIOPLVESIWKRLTLFSGKGRPRAMRGFDMLHTNEVLEEMQVSDVEK 198
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 122 KRWLAESLRGPAALDLMHIVQADNPISVEECLEAFKQVFGSLSRRTAQRVLYKTYOEG 181
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 199 RRLWLESIRGPAADIVIRILKSNPAITTAECIKALEQVFGSVSSRDQIKFLATYQVPG 258
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 182 EKVSAYVLRLETLRKAVEKRAIPRRIRADQVRLQVMAQA---TLNOMLMCRRLKLD 237
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 259 EKLSAYVLRLEPLQKLVORCAIERDAVNQARLDQVIAQVHNTIRREL---TGAGE 315
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Qy 238 GGPSPSFLK 246
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 316 GGPSPSFLSV 324
    :||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:

```

## RESULT 13

```

US-09-804-014A-40
; Sequence 40, Application US/09804014A
; Publication No. US20030064489A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Vernet, Corine
; APPLICANT: Fernandes, Silma
; APPLICANT: Shimkets, Richard
; APPLICANT: Spaderna, Steven
; APPLICANT: Majumder, Kundu
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-721 US
; CURRENT APPLICATION NUMBER: US/09/804,014A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/189,316
; PRIOR FILING DATE: 2000-03-10

```



;; PRIOR APPLICATION NUMBER: 60/188,277  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 60/189,139  
;; PRIOR FILING DATE: 2000-03-14  
;; PRIOR APPLICATION NUMBER: 60/139,140  
;; PRIOR FILING DATE: 2000-03-14  
;; PRIOR APPLICATION NUMBER: 60/190,401  
;; PRIOR FILING DATE: 2000-03-17  
;; PRIOR APPLICATION NUMBER: 60/190,231  
;; PRIOR FILING DATE: 2000-03-17  
;; NUMBER OF SEQ ID NOS: 75  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 40  
;; LENGTH: 318  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
;; NAME/KEY: VARIANT  
;; LOCATION: (20)  
;; OTHER INFORMATION: wherein Xaa is any amino acid as defined in the  
;; OTHER INFORMATION: specification  
US-09-804-014A-40

Query Match 38.5%; Score 562.5; DB 10; Length 318;  
Best Local Similarity 48.9%; Pred. No. 4,6e-41;  
Matches 113; Conservative 45; Mismatches 64; Indels 9; Gaps 3;

QY 3 GKGWVKVIFKTPNQTFLERLNLFLKEGQTVSGMPALGOEGVSPATVPCISPEL 62  
DB 83 GKGWVKVIFKTPNQTFLERLNLFLKEGQTVSGMPALGOEGVSPATVPCISPEL 138  
QY 63 HLHGQAMAHAPQPLP-PMRYRKLTVSGSAVAPAESESEFWMLEQATEIVKEMPYTEAK 121  
DB 139 EMUNYILDNVIGPLVESIWKRLTLFSGKHPRAMRGNDPMLHETNEVLEEWQVSDVEK 198  
QY 122 KRLASLSLGPALDLHVIQADNPISVBECEAFQVGSLSERTTAQVRYIKTYQEG 181  
DB 199 RRLMSLSLGPADVIRIKSNNPALITTAECLEKALQVGSVSSRDQIKPLNTYQNP 258  
QY 182 EKVSAYVLRLETLTKRAVEKRAIPRIADQVRLQVMAQA---TLNQMLM 228  
DB 259 EKLSAYVLRLETLTKRAVEKRAIPRIADQVRLQVMAQA---TLNQMLM 309

RESULT 14  
US-09-804-014A-39  
;; Sequence 39, Application US/09804014A  
;; Publication No. US20030064489A1  
;; GENERAL INFORMATION:  
;; APPLICANT: L1, L1  
;; APPLICANT: Padigar, Muralidhara  
;; APPLICANT: Vernet, Corine  
;; APPLICANT: Fernandes, Elma  
;; APPLICANT: Shimkets, Richard  
;; APPLICANT: Spaderna, Steven  
;; APPLICANT: Majumder, Kumud  
;; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
;; FILE REFERENCE: 15966-721 US  
;; CURRENT APPLICATION NUMBER: US/09/804,014A  
;; PRIOR FILING DATE: 2002-04-24  
;; PRIOR APPLICATION NUMBER: 60/188,316  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 60/188,277  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 60/189,139  
;; PRIOR FILING DATE: 2000-03-14  
;; PRIOR APPLICATION NUMBER: 60/189,140  
;; PRIOR FILING DATE: 2000-03-14  
;; PRIOR APPLICATION NUMBER: 60/190,401  
;; PRIOR FILING DATE: 2000-03-17  
;; PRIOR APPLICATION NUMBER: 60/190,231  
;; PRIOR FILING DATE: 2000-03-17  
;; NUMBER OF SEQ ID NOS: 75

;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 39  
;; LENGTH: 321  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-804-014A-39

Query Match 38.3%; Score 560; DB 10; Length 321;  
Best Local Similarity 48.6%; Pred. No. 7,7e-41;  
Matches 119; Conservative 44; Mismatches 72; Indels 10; Gaps 4;

QY 1 VQKGVWVKVIFKTPNQTFLERLNLFLKEGQTVSGMPALGOEGVSPATVPCISPEL 60  
DB 82 IPKGGIWRVIFKPPDPNPTFLSRINFLAGEGTVGLSPALGHENSLPDEQGMIDEM 141  
QY 61 LAHLGQAMAHAPQPLP-PMRYRKLTVSGSAVAPAESESEFWMLEQATEIVKEMPYTEAK 119  
DB 142 WAPMLAQAL-ELAPQALQCLTKRLTVSGSESPGSEBFGWMTFTTQMIKAMQVADV 200  
QY 120 EKKRWLASLGPALDLHVIQADNPISVBECEAFQVGSLSERTTAQVRYIKTYQEG 179  
DB 201 EKKRWLASLGPALDLHVIQADNPISVBECEAFQVGSLSERTTAQVRYIKTYQEG 260  
QY 180 EKVSAVYLRLETLTKRAVEKRAIPRIADQVRLQVMAQA---TLNQMLMCKRLKED 236  
DB 261 DEKLSAYVLRLETLTKRAVEKRAIPRIADQVRLQVMAQA---TLNQMLMCKRLKED 315  
QY 237 QGPP 241  
DB 316 DGPAP 320

RESULT 15  
US-09-804-014A-73  
;; Sequence 73, Application US/09804014A  
;; Publication No. US20030064489A1  
;; GENERAL INFORMATION:  
;; APPLICANT: L1, L1  
;; APPLICANT: Padigar, Muralidhara  
;; APPLICANT: Vernet, Corine  
;; APPLICANT: Fernandes, Elma  
;; APPLICANT: Shimkets, Richard  
;; APPLICANT: Spaderna, Steven  
;; APPLICANT: Majumder, Kumud  
;; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
;; FILE REFERENCE: 15966-721 US  
;; CURRENT APPLICATION NUMBER: US/09/804,014A  
;; PRIOR FILING DATE: 2002-04-24  
;; PRIOR APPLICATION NUMBER: 60/188,316  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 60/188,277  
;; PRIOR FILING DATE: 2000-03-10  
;; PRIOR APPLICATION NUMBER: 60/189,139  
;; PRIOR FILING DATE: 2000-03-14  
;; PRIOR APPLICATION NUMBER: 60/189,140  
;; PRIOR FILING DATE: 2000-03-14  
;; PRIOR APPLICATION NUMBER: 60/190,401  
;; PRIOR FILING DATE: 2000-03-17  
;; PRIOR APPLICATION NUMBER: 60/190,231  
;; PRIOR FILING DATE: 2000-03-17  
;; NUMBER OF SEQ ID NOS: 75  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 73  
;; LENGTH: 312  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-804-014A-73

Query Match 37.6%; Score 550; DB 10; Length 312;  
Best Local Similarity 50.9%; Pred. No. 5,6e-40;  
Matches 113; Conservative 41; Mismatches 66; Indels 2; Gaps 2;

QY 1 VQKGVWVKVIFKTPNQTFLERLNLFLKEGQTVSGMPALGOEGVSPATVPCISPEL 60



Fri Apr 8 14:12:53 2005

us-10-037-860-11.rabb

Page 7

[illegible]

Search completed: April 8, 2005, 13:35:15  
Job time : 64.213 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using SW model

Run on: April 8, 2005, 11:48:54 ; Search time 35.5652 Seconds  
(without alignments)

971,808 Million cell updates/sec

Title: US-10-037-860-13  
Perfect score: 2423  
Sequence: 1 MPTLLDPWCRGHEHLNTRRC.....VESGNGMWMDSHPKSKAK 463

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74619064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Issued\_Patents\_AA.\*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep.\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep.\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep.\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep.\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep.\*  
6: /cgn2\_6/ptodata/1/1aa/Backfilltest.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2394	98.8	462	3	US-09-189-527-13
2	766.5	31.6	329	3	US-09-189-527-4
3	462.5	15.1	195	3	US-09-189-527-7
4	122	5.0	2293	3	US-09-368-590-2
5	113	4.7	706	4	US-09-949-016-8626
6	110.5	4.6	341	4	US-09-252-991A-20182
7	110	4.5	373	4	US-09-919-497-53
8	110	4.5	384	4	US-09-949-016-11663
9	110	4.5	718	4	US-09-252-991A-32743
10	104.5	4.3	499	4	US-09-902-540-14780
11	104	4.3	312	4	US-09-902-540-11860
12	104	4.3	383	4	US-09-489-039A-11848
13	104	4.3	2600	4	US-09-949-016-7109
14	103	4.3	551	4	US-09-583-110-5958
15	101.5	4.2	1201	4	US-09-252-991A-32259
16	101	4.2	550	4	US-09-538-092-1259
17	101	4.2	580	4	US-09-252-991A-22036
18	100	4.1	363	4	US-09-252-991A-26726
19	100	4.1	369	4	US-09-252-991A-22549
20	99.5	4.1	1050	4	US-09-555-554-2
21	99	4.1	520	4	US-09-949-016-8026
22	99	4.1	639	1	US-08-466-390-2
23	99	4.1	639	1	US-08-470-950-2
24	99	4.1	639	1	US-08-467-781-2
25	99	4.1	639	1	US-08-195-487-2
26	99	4.1	639	2	US-08-483-924-2
27	99	4.1	639	5	PCT-US93-06160-2

28	98.5	4.1	733	4	US-09-489-039A-12568	Sequence 12568, A
29	98.5	4.1	820	4	US-09-252-991A-23346	Sequence 23346, A
30	98	4.0	819	4	US-09-902-540-13635	Sequence 13635, A
31	97.5	4.0	776	4	US-09-252-991A-28446	Sequence 28446, A
32	97.5	4.0	2154	2	US-08-841-349-4	Sequence 4, Appl
33	97.5	4.0	2154	4	US-09-431-184A-4	Sequence 4, Appl
34	97	4.0	181	4	US-09-252-991A-26482	Sequence 26482, A
35	97	4.0	524	4	US-09-583-110-3291	Sequence 3291, Ap
36	97	4.0	541	4	US-09-252-991A-30867	Sequence 30867, A
37	97	4.0	545	4	US-09-107-433-3227	Sequence 3227, Ap
38	97	4.0	1958	1	US-07-945-283-2	Sequence 2, Appl
39	97	4.0	2108	4	US-09-252-991A-31502	Sequence 31502, A
40	96.5	4.0	406	4	US-09-252-991A-24973	Sequence 24973, A
41	96.5	4.0	771	4	US-09-252-991A-20455	Sequence 20455, A
42	96.5	4.0	773	5	US-09-913-301-5	Sequence 5, Appl
43	96.5	4.0	804	4	US-09-913-301-2	Sequence 2, Appl
44	96.5	4.0	849	4	US-09-252-991A-17953	Sequence 17953, A
45	96.5	4.0	920	4	US-09-252-991A-28918	Sequence 28918, A

## ALIGNMENTS

RESULT 1  
US-09-189-527-13  
Sequence 13, Application US/09189527A  
Patent No. 6387639  
GENERAL INFORMATION:  
APPLICANT: Jerome B. Posner  
APPLICANT: Joseph O. Dalmou  
TITLE OF INVENTION: Myrna R. Rosenfield  
TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma  
FILE REFERENCE: SIK98-01  
CURRENT APPLICATION NUMBER: US/09/189,527A  
CURRENT FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FASTSEQ for Windows Version 3.0  
SEQ ID NO 13  
LENGTH: 462  
TYPE: PRT  
ORGANISM: homo sapiens  
US-09-189-527-13

Query Match 98.8%; Score 2394; DB 3; Length 462;  
Best Local Similarity 100.0%; Pred. No. 4,9e+247;  
Matches 457; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	7	QDRCRGEHLNTRRCMLILGIPEDCGEDFEFTLOACRHIGRYVIGMFRRENAQAIL	66
DB	1	QDRCRGEHLNTRRCMLILGIPEDCGEDFEFTLOACRHIGRYVIGMFRRENAQAIL	60
QY	67	LELADODIDYALPREIFGKSGPWEIVIKPRNSDSEFLNRLRFLSEERRTVSDMNRVIGS	126
DB	61	LELADODIDYALPREIFGKSGPWEIVIKPRNSDSEFLNRLRFLSEERRTVSDMNRVIGS	120
QY	127	DTNCSARVITISPEFTWTAQTLGAAYOPLLEOMLYRELRYFSGNTISIPGALADAWLEH	186
DB	121	DTNCSARVITISPEFTWTAQTLGAAYOPLLEOMLYRELRYFSGNTISIPGALADAWLEH	180
QY	187	TTEMLQWQVPEGKRRRLMECLRGPALOYVSGIRASNAITVEECALAOVFGPRESH	246
DB	181	TTEMLQWQVPEGKRRRLMECLRGPALOYVSGIRASNAITVEECALAOVFGPRESH	240
QY	247	KIAOVKCKYQVGEKVSFVLRLPELLOAVENNVSRNVQTRLKVLSGATLPDK	306
DB	241	KIAOVKCKYQVGEKVSFVLRLPELLOAVENNVSRNVQTRLKVLSGATLPDK	300
QY	307	LRLDKLKMQRKRPGLALVKLREBEWEATLGPRESLEGLVAPRPATITGVAV	366
DB	301	LRLDKLKMQRKRPGLALVKLREBEWEATLGPRESLEGLVAPRPATITGVAV	360
QY	367	PLPASGNSFDPARBPQGRRRRGQRHRRGGVAAAGSGSKRRKRRHTCYSGCGDHIRVO	426



```
Db 361 PLPASGNSFDARPSQYRRRRRCQHRGCVAPAGSRGSRKRRHTFCVSCGEDSHIRVQ 420
QY 427 CINPSNLLLVKKOAAVSGNGNWMAMPDCKSHPKSKAK 463
421 CINPSNLLLVKKOAAVSGNGNWMAMPDCKSHPKSKAK 457
```

## RESULT 2

```
US-09-189-527-4
; Sequence 4, Application US/09189527A
; Patent No. 6387639
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Josep O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma
; FILE REFERENCE: SLK98-01
; CURRENT APPLICATION NUMBER: US/09/189,527A
; CURRENT FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-189-527-4
```

```
Query Match 31.6%; Score 766.5; DB 3; Length 329;
Best Local Similarity 50.2%; Pred. No. 4,1e-73;
Matches 157; Conservative 50; Mismatches 103; Indels 3; Gaps 2;
```

```
QY 1 MPTLLQWCGEHNTTRCMILIGIPEDCGEDEFEEFLQACRHLYGVYIGRMFRREE 60
Db 1 MMTLLIEDCMQDVNSQITLVKCI PVNCDAAEIEETLQAMPQVS-YRMIGRMFRREE 59
QY 61 NAAVLELEADIDVALLPREIPGKGMWEIVKPRNSDGEFLNRLNLFEEERTVSDM 120
Db 60 NAKALLLELTGAVDYAALPREMPGKGVKVLFKPPTSDAEFLERHLFLAREGWTVDV 119
QY 121 NRVGSDTNCSPRTVISPEFTWAGTGAADVQPLLEQMLYRELAVSGNTISIPGALA 180
Db 120 ARVLEFQNPPTPTGPEMPAEMLN--ILDNVIQPLVESIWKRLTLFSGKHPRAMRGNF 177
QY 181 DAWLEHTTEMLOMVOVPEGEKRRRLMECLRGPAQVNSGLASNASIVEECIALAQOVF 240
Db 178 DPMLEHTTEVLESMQVSDVEKRRRLMESIRGPADAVIRILKSNPAITTAECTALAEQV 237
QY 241 GPVESHKIAQVYLCAYQAGEKYSFVLRLEPRLQRAVENNVSRNVNQTRELKRVLSG 300
Db 238 GSVESRDQIKFTLNTYQNPBEKLSAVYIRLEPRLQKVEKGAIDKDNVNAQRLAEQVIA 297
QY 301 ATLPRKLDKXU 313
Db 298 ANHSGAIRQQLWL 310
```

## RESULT 3

```
US-09-189-527-7
; Sequence 7, Application US/09189527A
; Patent No. 6387639
; GENERAL INFORMATION:
; APPLICANT: Jerome B. Posner
; APPLICANT: Josep O. Dalmau
; APPLICANT: Myrna R. Rosenfeld
; TITLE OF INVENTION: Ma Family Polypeptides and Anti-Ma
; FILE REFERENCE: SLK98-01
; CURRENT APPLICATION NUMBER: US/09/189,527A
; CURRENT FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 3.0
```

```
; SEQ ID NO 7
; LENGTH: 195
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-189-527-7
```

```
Query Match 19.1%; Score 462.5; DB 3; Length 195;
Best Local Similarity 47.7%; Pred. No. 5,9e-41;
Matches 93; Conservative 34; Mismatches 65; Indels 3; Gaps 2;
```

```
QY 2 PLTLQWCGEHNTTRCMILIGIPEDCGEDEFEEFLQACRHLYGVYIGRMFRREEN 61
Db 1 PLALLEDMCRIMSDVEKSLMVTGIPADFEBAEIOEVLQETLSLGRYRLGKIFRQEN 60
QY 62 AAVLELEADIDVALLPREIPGKGMWEIVKPRNSDGEFLNRLNLFEEERTVSDM 121
Db 61 ANAVLELEEDTDVSAIPSEVQKGVKVIKFPNODTEFLERHLFLAREGQTVSGMF 120
QY 122 RVGSDTNCSPRTVISPEFTWAGTGAADVQPLLEQMLYRELAVSGNTISIPGALA 179
Db 121 RALGQALSPATVPCISPELLAHLLQAMAHAPQPLT-PWRYRLRVFSGSAVAPAEES 179
QY 180 FDAWLEHTTEMLOVM 194
Db 180 FEVWLEQATEIVKEW 194
```

## RESULT 4

```
US-09-368-590-2
; Sequence 2, Application US/09368590
; Patent No. 6187563
; GENERAL INFORMATION:
; APPLICANT: Solimena, Michele
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
; FILE REFERENCE: 101918-200 (OCR-941)
; CURRENT APPLICATION NUMBER: US/09/368,590
; CURRENT FILING DATE: 1999-08-04
; EARLIER APPLICATION NUMBER: 60/095,657
; EARLIER FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2293
; TYPE: PRT
; ORGANISM: Human
US-09-368-590-2
```

```
Query Match 5.0%; Score 122; DB 3; Length 2293;
```

```
Best Local Similarity 25.1%; Pred. No. 0.0096;
Matches 100; Conservative 57; Mismatches 144; Indels 98; Gaps 24;
```

```
QY 60 ENAQVLELEADIDVALLPREIPGK-----GGMWEIVKPRNSDGEFL---NR 105
Db 733 EPRQALLLEEA-----ALAEPPQAQAXLHOGABEIGAEMGALASAAQCGEAVAAAGR 787
QY 106 LNRFLFEERTVSDMNVVLGSDTNCSPRTVISPEFTWAGTGAADVQPLLEQMLYRE-- 163
Db 788 LQRFHLDLAFDLMLVAQBAAGSEGP-----LPNSLEADALLARIALKEFVDQREED 843
QY 164 -LRVFGN--TISIPGCA-----LAFDAWLEHTT---ENLQMQVPEGEKRRRLMEC--- 208
Db 844 YARIVAASEALLAADGELGPGALDEMPLHLELGMKLGILKKA-----RRKALVOAHY 899
QY 209 ---LRG--PALQVVG--LRASNASI--TYEECLALQOVFGPVESHKIAQVYLCRAYOE 259
Db 900 QLFPLRDRLVLDKRNEMALSGAELPGTVESVEBALKQIRDLVTMEYSQCMQYAVQA 959
QY 260 A-----GKVSFVLRLEPRLQRAVENNVSRNV---NQTRELKRVLS-----G 300
Db 960 AEGILRGQNIYGEQAQAVTR---LLEKNQENQLRAQOQWQKLDQLDQLQHFPLRDCHELD 1016
QY 301 ATLPRDKL-----RDKLTKMKORRKPFGFLALVKLREEMEWATL---GPDRESLE- 348
```



Db 1017 GATHEGMLARDGTREDNKHKRWLRHDAFMA---ELQNMWEMLEKIREBPATDAGA 1073  
 QY 349 ---GL--EVAAPPARITVGAVPLPASGNSFDPARPSQ 381  
 Db 1074 RTGGLABEABGRDPVLGGNGEHHPGRHSSSL--RPSK 1110

## RESULT 5

US-09-949-016-8626  
 ; Sequence 8626, Application US/09949016  
 ; Patent No. 6812339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 ; FILE REFERENCE: CL001307  
 ; CURRENT APPLICATION NUMBER: US/09/949,016  
 ; PRIOR FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/241,755  
 ; PRIOR FILING DATE: 2000-10-20  
 ; PRIOR APPLICATION NUMBER: 60/237,768  
 ; PRIOR FILING DATE: 2000-10-03  
 ; PRIOR APPLICATION NUMBER: 60/231,498  
 ; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: PseclSeq for Windows Version 4.0  
 ; SEQ ID NO 8626  
 ; LENGTH: 706  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-949-016-8626

Query Match 4.7%; Score 113; DB 4; Length 706;  
 Best Local Similarity 21.4%; Pred. No. 0.013;  
 Matches 84; Conservative 57; Mismatches 150; Indels 102; Gaps 20;

QY 19 RCMILGIPEDGCEDEFEETLOEACRHLGRYRVIGMFRREBNQAQILLEADIDYALL 78  
 Db 243 RCLKTEVEBENTAEITRVLVEFIEMG---ISAKVFQATTYGGDIYKACGLDVAV- 298  
 QY 79 PREIPGKG---GPWEVIVKPRNSDGEFLNRLNRLFLSEERRTVSDMNRVLSGDTNCS-A 132  
 Db 299 --HMPGLGHTFNNGIQAFGLPRL--GALLSRCKLVKVFQSAVAMMYLKEKQXQANVA 354  
 QY 133 PRVTIPEFTVTAQTGAIVQPLLEQMLVRELAVFSGNTSISGALAFDAMLEHTEMQD 192  
 Db 355 HCMVLVSNRVSMGSTL-AMQLRKEQFV-----IAGVLVEDSNHNLMLLEAS 401  
 QY 193 MNCVPGEKRRRLMECLRSPALQVNSGLRAS-----NASITVEECIALAL 236  
 Db 402 EMATIGS---LVELLQ-PFKQVAMLSASRPITSMVKPLMLMLNTLNKE----- 450  
 QY 237 QOVGFVESHKIAQVK---LCKAYOEAQ---KISSFVLRLLEPLLQ---AYE 280  
 Db 451 -----TDSKELSMKAKEVIAKELSKTYOETPEIDMFLNATF---LDPRYKRLPFLSAFE 501  
 QY 281 MNVVSRRNVNQR--LKRVLISGATLPDKLBDKL-----KLMKQRKKRPGFL--A 325  
 Db 502 RQGVENRVVBEAKGLDVKVXDGGRP--AEDKIFPVPEEPVVKLMTSTPPASVAVNM 559  
 QY 326 LVKL-----LREEEWEATLGPDRSELEGLAV 352  
 Db 560 LAEIFCOTGVEVDOEEMHQAQVVELELSNFKSQKV 592

## RESULT 6

US-09-252-991A-20182  
 ; Sequence 20182, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 20182  
 ; LENGTH: 341  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 ; US-09-252-991A-20182

Query Match 4.6%; Score 110.5; DB 4; Length 341;  
 Best Local Similarity 24.3%; Pred. No. 0.007;  
 Matches 66; Conservative 22; Mismatches 109; Indels 75; Gaps 11;

QY 208 CLRGPALQVSGLRASNASITVEECIALAQVGFVESHKIAQVYLCKA----- 256  
 Db 16 CLGSP---VDGHPAKHASTLRGNGKRLHGVRAQHNN---RLCFAGGGQPRDAPAH 67  
 QY 257 -----YQEA---GEKVSFVLRLLEPLLQRAVENNVSRNVNQTRLKRVLSGATLPDK 306  
 Db 68 PPAQPYHSHRPHRGRPALPALRADPRLRSGRGR--SQRRPCPTRRQ--AEAAFDPR 122  
 QY 307 LADKLKMKQRKPRPGFLATVYLNEEEMWATLGPDRSELE----- 348  
 Db 123 HRPALDRPHRLRP--AVPRDRPDRGQPRADPARGLRRGRGCLRAARFLHPPA 179  
 QY 349 -----GLEVAPPARITVGAVPLPASGNSFDPARPSQYRR--RRGQQRH 394  
 Db 180 HRRDLQHSRLAGVAPERHARFAQAGOPRLPAPGQCAAGSLAVRSRQPGNGLHRR 239  
 QY 395 ---GVAAPASGRGSRKRRHTFCYSGEDGH 422  
 Db 240 LAVPGCRRRRHRCGNPLRTGHR--HPAGVFGH 269

## RESULT 7

US-09-919-497-53  
 ; Sequence 53, Application US/09919497  
 ; Patent No. 6773883  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Muller, George L.  
 ; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER  
 ; FILE REFERENCE: B0801/725  
 ; CURRENT APPLICATION NUMBER: US/09/919,497  
 ; CURRENT FILING DATE: 2001-07-31  
 ; PRIOR APPLICATION NUMBER: US 60/221,735  
 ; PRIOR FILING DATE: 2000-07-31  
 ; NUMBER OF SEQ ID NOS: 100  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 53  
 ; LENGTH: 373  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-919-497-53

Query Match 4.5%; Score 110; DB 4; Length 373;  
 Best Local Similarity 24.2%; Pred. No. 0.0092;  
 Matches 97; Conservative 49; Mismatches 144; Indels 110; Gaps 20;

QY 22 LILGIPEDGCEDEFEETLOEACRHLGRYRVIGMFRRE-----NAQALILEAD 72  
 Db 20 VVCGVSEOTTCEVVIALLAQIGTGRFVLVGRLEKEKQLLPQRCPVGAQATCGQFASD 79  
 QY 73 IDYALLPREIPGKG-----PWE-----VIVPRNSDGEFLNRLNRLFLSEERTV 117  
 Db 80 VQF-VLRRTPSLAGSPSSDCPPERCILIRASLVPKPRALG-----CEPRKTL 128  
 QY 118 SDNRVLGSDTNCSPRVITISPEFTVTAQTGAIVQPLLEQMLVRELAVFSGNTSISIGA 177



```

Db      129 TPEAPSLSRPAP--VTPTGCCCTDRLGELRLVONNAEEL-----GH 171
Qy      178 LADAMLEHTTEMLOMNVPEGEKRRRLMECLGRLQVSSGRASNA---SITVECLA 234
Db      172 EAF--W---EOELRREGAREREGQARL-QALSAATLTHAARLQALDQARALEAELOLA 224
Qy      235 ALQOQFEP-----VESHKIAQVK---LCKAYOAGEKVSFVLRLPEL 274
Db      225 A--EAPGPPSPMASATERLHODLAVQERQSAEVOGSLAVSRALAEARA-----LQAQ 276
Qy      275 LQRAVENNVVSRNNVQTRIKRVL--SGATLPDKLTKMKQRRKPPGFALVYLRE 332
Db      277 AOELIEELIN---RELRCNLOQFIQOTGALPPPPRPD-----RGPFGTQGLPPARE 325
Qy      333 EEMEATLGPRESLEGLLEVAPR---PPARITGVAVLP 369
Db      326 ----ESLLGAPSSHAGAPRPRGGRPHDELLEVAAPAP 361

```

## RESULT 8

```

US-09-949-016-11663
; Sequence 11663, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 11663
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11663

```

Query Match 4.5%; Score 110; DB 4; Length 384;

Best Local Similarity 24.2%; Pred. No. 0.0097;

Matches 97; Conservative 49; Mismatches 144; Indels 110; Gaps 20;

```

Qy      22 LILGIPEDCEDEFEETLQACRHLYGVYIGMFRRE-----NQAILLLELAQD 72
Db      31 VVGCVSQTTCQEVVIALQALIGQGRFVLVQRLREKERQLDQECFVGAQATCGQFASD 90
Qy      73 IDVALLRELPKGGK-----PWE-----VIVPRNSDGEFLNLRKLFEEERTV 117
Db      91 VQF-VLARTGPSLAGRPSDSCPPERCULRASLPVPRALG-----CEPRKTL 139
Qy      118 SDNRVLSGSDTNCSPAVTTISPFTWAQTLGAAVQPLLEQMLYRELVEFGNTTISPGA 177
Db      140 TPEAPSLSRPAP--VTPTGCCCTDRLGELRLVONNAEEL-----GH 182
Qy      178 LADAMLEHTTEMLOMNVPEGEKRRRLMECLGRLQVSSGRASNA---SITVECLA 234
Db      183 EAF--W---EOELRREGAREREGQARL-QALSAATLTHAARLQALDQARALEAELOLA 235
Qy      235 ALQOQFEP-----VESHKIAQVK---LCKAYOAGEKVSFVLRLPEL 274
Db      236 A--EAPGPPSPMASATERLHODLAVQERQSAEVOGSLAVSRALAEARA-----LQAQ 287
Qy      275 LQRAVENNVVSRNNVQTRIKRVL--SGATLPDKLTKMKQRRKPPGFALVYLRE 332
Db      288 AOELIEELIN---RELRCNLOQFIQOTGALPPPPRPD-----RGPFGTQGLPPARE 336

```

```

Qy      333 EEMEATLGPRESLEGLLEVAPR---PPARITGVAVLP 369
Db      337 ----ESLLGAPSSHAGAPRPRGGRPHDELLEVAAPAP 372

```

## RESULT 9

```

US-09-252-991A-32743
; Sequence 32743, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32743
; LENGTH: 718
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-32743

```

Query Match 4.5%; Score 110; DB 4; Length 718;

Best Local Similarity 21.7%; Pred. No. 0.027;

Matches 70; Conservative 31; Mismatches 93; Indels 128; Gaps 16;

```

Qy      242 PVESHKIAQVKLCKAYOAGEKVSFVLRLPEL-----LQAYE----- 280
Db      122 PEKPHVHERPRHVDVQPGGRATR---RLSPRPPRRRTDRHAGCGGPRGRALHARA 178
Qy      281 -----NNVVSRRNVQTRLKRVLSGATLPDKLTKMKQRRKPPG---FLALV 327
Db      179 DGHRRCLHPLRPAGRGLRRRLRGAV--ANLPSRARDH---GYRRRAGGGLRLGLA 232
Qy      328 KLLREEWEEATLGPRESLEGLLEVAPRPAR-ITG-----VGAVLPPASGNSP 375
Db      233 QRTVPDARTRPADRRRRRLRRRAPAPARGTRGGCGGRPLPAGATIQPA----- 287
Qy      376 DAPSGYRRRG-----RGQR----- 393
Db      288 -GPPQGMLORRPDRCPAPFPSPSAGGAGHLRHRPAPVRRARPGRSGQRKVAAG 346
Qy      394 RGVNARAGSGSRK-----RKHTFCVSCGHDGHRVQCIINPNULL-----YKOK 439
Db      347 RGGPGSAGLPARRRRHFGLPRRHSTRPA---DGH-RAGLPGRSGYLOGAGPDPAVRIR 402
Qy      440 KQAAVESGNGNMAWDKSHPKSK 461
Db      403 AHQPARGGRG-----HPRPR 417

```

## RESULT 10

```

US-09-902-540-14780
; Sequence 14780, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: MYXOCOCCUS XANTHUS Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 14780

```



LENGTH: 499  
 TYPE: PR  
 ORGANISM: Myxococcus xanthus  
 US-09-902-540-14780

Query Match  
 Best Local Similarity 4.3%; Score 104.5; DB 4; Length 499;  
 Matches 99; Conservative 45; Mismatches 124; Indels 145; Gaps 23;

31 GDEDE-----ETLOACRHLGRVIGAMPREEMAOILLETLOD--IDVA 76  
 163 GDEGGEDLLITHDNVEGTAAQDAR-----RDDTINGLFDVAVEGRVIDY- 209  
 77 LIPREIPGKGPWEVIVKPRNSDGEFLNRLNLEERERTVSDMNRVLGSDTNGCAPRYT 136  
 210 -----VRGR-----RDDRERIRITG--DPEVMRMDPRILBAVR--PAKLKG 249  
 137 ISPEFTMAQTLGAAYOPLE---OMLYRELRVSGNTISIPGALAPAMLEHTTEMQ 192  
 250 LDIESRTYAMEG-AVEDLPRCAPALLETETRLIRGG-VSAPALKLDA---LDALK 302  
 193 MNQVP-----EGEGR-----RRLMECLRGPALQVSGLRASNASITVEECL 233  
 303 ILPPNAYLKHGKGEKTFYAFASLDR-----VSAGEALDDAILLAML 350  
 234 AALQVGFVESHKIAQVLCRAQYDAGEKVSFVLRLLEPLLQRAVENNVSRNVNQR 293  
 351 IPIRSTGPDES-----QGRPSVSGQV--EDLLAGFVQSARLPRIAEKRCR 395  
 294 L-----KRVISGATLPKLDKLMQKRRKPGF---LALVKLREEEMEATIGPDE 345  
 396 MLLAQRTLSG-----ERRRSAAFKHPFSEALIVFEWTEAT-GENRE 440  
 346 SLEGEVAPRPARTIGVAVPLP---ASGNSFDARPGQYRRRGQCHRR 394  
 441 QLEAWK-----AGEVPOPRALAAADGESDA---CGQKRRRRRRRR 479

## RESULT 11

US-09-902-540-11866  
 Sequence 11866, Application US/09902540

GENERAL INFORMATION:  
 APPLICANT: Goldman, Barry S.  
 APPLICANT: Hinkle, Gregory J.  
 APPLICANT: Slater, Steven C.  
 APPLICANT: Wiegand, Roger C.  
 TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
 FILE REFERENCE: 38-10(15849)B  
 CURRENT APPLICATION NUMBER: US/09/902,540  
 CURRENT FILING DATE: 2001-07-10  
 PRIOR APPLICATION NUMBER: 60/217,883  
 PRIOR FILING DATE: 2000-07-10  
 NUMBER OF SEQ ID NOS: 16825  
 SEQ ID NO 11866  
 LENGTH: 312  
 TYPE: PR  
 ORGANISM: Myxococcus xanthus  
 US-09-902-540-11866

Query Match  
 Best Local Similarity 4.3%; Score 104; DB 4; Length 312;

Matches 67; Conservative 30; Mismatches 84; Indels 98; Gaps 15;

227 ITVEECLALQ--VFGEVESHKIAQVLCRAQYDAGEKVSFVLRLLEPL 274  
 15 IELRSIDADHDHFAVLGKQAPASEVK--QAYYNAARRPHDRYFGKNGSFRARWRI 72  
 275 LQRAVE--NNVSRNVNQRILKRVLSGATLPDK---LRDKLKMQR--KRP 321  
 73 FRRLTDANVLMQ-----PDKREAVLRIANPALAQERAAAPPPSAPP 115  
 322 GFLALVTLKREEEMEATIGPDESLGLEVAPRPARTIGVAVPLPAGNSFDAR-- 379

116 PSAPQHLLTPP-----PPIVQLSSPPRPAPVASSGSSIPPP-----SRPLA 161  
 380 -----SGYRRRRRGQHRGGVADAG-----SGSRKRRKHTCYSGGE 419  
 162 PPPDGAASEARBAERQARLAPYIARTGRILAEILARGKAIAAGDWERAVHDF----- 215  
 420 DGHIRVQGINSPN---LLVYKQK-----QAAVESNG 449  
 216 --H-QVQTMDEPKNEVALLVKARGHDSORATTEVARG 251

## RESULT 12

US-09-489-039A-11848  
 Sequence 11848, Application US/09489039A

GENERAL INFORMATION:  
 APPLICANT: Gary Breton et. al  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
 TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
 FILE REFERENCE: 2709.2004001  
 CURRENT APPLICATION NUMBER: US/09/489,039A  
 CURRENT FILING DATE: 2000-01-27  
 PRIOR APPLICATION NUMBER: US 60/117,747  
 PRIOR FILING DATE: 1999-01-29  
 NUMBER OF SEQ ID NOS: 14342  
 SEQ ID NO 11848  
 LENGTH: 383  
 TYPE: PR  
 ORGANISM: Klebsiella pneumoniae  
 US-09-489-039A-11848

Query Match  
 Best Local Similarity 4.3%; Score 104; DB 4; Length 383;  
 Matches 60; Conservative 44; Mismatches 91; Indels 72; Gaps 12;

114 RRTVSDMNRVLGSDTNGCAPRYTISPEFTMAQTLGAAYOPLEOMLYRELRVSGNTIS 173  
 118 QRGAEELHR-CRSELTCTLRATISSFTIHRNNNDIAHNLAQ---VRD-----K 164  
 174 IFGALAFAMLEHTTEMLOMNVQPEGEKRRRLMECLRGPALQVSGLRASNASITVEECL 233  
 165 ISGAA-----RCGRAPDEEVTLLAVKTKPKASAIIEAI 197  
 234 AALQVGFVESHKIAQVLCRAQYDAGEKVSFVLRLLEPLLQRA---VENNVSRNV 289  
 198 AAGORAFG--ENV-----VOGEVKINH-----QOAGVSGLOWHFTGPIQS 237  
 290 NOTRL-KRVLSGATLPDKLKDLMQKRRKPGFLAVLKLRE---EEEMEATIGPDES 346  
 238 NKSRLVAHEHFDWCHTVDRIKITRLNEOR---PAHLPLKVLQINISDEQSGSLPLEA 294  
 347 LEGL--EVAPRPARTIGVAVPLP 371  
 295 LDGLAEIHELPHLELRGLMAIPAPES 321

## RESULT 13

US-09-949-016-7309  
 Sequence 7309, Application US/09949016

GENERAL INFORMATION:  
 APPLICANT: VENTER, J. Craig et al.  
 TITLE OF INVENTION: POLYOMPHISMS IN KNOWN GENES ASSOCIATED  
 TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 FILE REFERENCE: CL001307  
 CURRENT APPLICATION NUMBER: US/09/949,016  
 CURRENT FILING DATE: 2000-04-14  
 PRIOR APPLICATION NUMBER: 60/241,755  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR APPLICATION NUMBER: 60/237,768  
 PRIOR FILING DATE: 2000-10-03  
 PRIOR APPLICATION NUMBER: 60/231,498



; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 7309  
 ; LENGTH: 2600  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-09-949-016-7309

## Query Match

4.3%; Score 104; DB 4; Length 2600;  
 Best Local Similarity 23.3%; Pred. No. 1;  
 Matches 84; Conservative 52; Mismatches 125; Indels 100; Gaps 19;

QY 60 ENAATLLELAQIDVALPREI-PGK-----GGPWEIVYPRNSDGEFL--NR 105  
 DB 1071 EPRQALLLEBA-----ALTAERFPQAARLHOGAEELGAEKGLASAOQCGEVAAGR 1125  
 QY 106 LNRFLSEERTVSDNNRVLSGSDTNCSPRVITSPFEFTWAOTLGAAVOPLLEOMLYRE-- 163  
 DB 1126 LQRFHLDLDAFLDMLVRAQEAAGSGEP---LPNSLEEDALLARHAAKKEVDQREED 1181  
 QY 164 -LRVFGN--TISIPA---LAPAMLEHTT---EMLOMQUVEGEEKRRRLMEC--- 208  
 DB 1182 YAAIVASALLAADAAGALPGALDEMLPHLELGMKLLGLEMA---RREALVQAHY 1237  
 QY 209 ---LRG--PALQVSG--LRASNASI--TYEECTALAOVFGPVESHKIAOVYLCAYOE 259  
 DB 1238 QJFLRLRLQALVLRNOEVALSGAELPGTYESVEEELKQHRDFLTITMELSOQKQVAVQA 1297  
 QY 260 A-----GKVSFVLRLEPLLQRAVENNVSRNVNQTRLKRVLSGATLPDKLKD 309  
 DB 1298 AEGLLRQGNLYGEOAOEAVTRL-----LEKNOENQLRAQOMV-----OKLHD 1339  
 QY 310 KKL---MKQRKRPGEFLAVKL---REE-----EEMEAATLGPDRSELEGL 350  
 DB 1340 QLELQFLRDCHLEDGMIEKMLMARDSTREDNHKLHKRLRHQAEMALQNKWELEKI 1399  
 QY 351 E 351  
 DB 1400 E 1400

## RESULT 14

US-09-583-110-5058  
 ; Sequence 5058, Application US/09583110  
 ; Patent No. 6699703  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lynn Doucette-Stamm et al.  
 ; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
 ; FILE REFERENCE: PAT00-07A  
 ; CURRENT APPLICATION NUMBER: US/09/583,110  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: US 09/107,433  
 ; PRIOR FILING DATE: 1998-06-30  
 ; PRIOR APPLICATION NUMBER: US 60/085,131  
 ; PRIOR FILING DATE: 1998-05-12  
 ; PRIOR APPLICATION NUMBER: US 60/051,553  
 ; PRIOR FILING DATE: 1997-07-02  
 ; NUMBER OF SEQ ID NOS: 5322  
 ; SEQ ID NO 5058  
 ; LENGTH: 551  
 ; TYPE: PRT  
 ; ORGANISM: Streptococcus pneumoniae  
 US-09-583-110-5058

## Query Match

4.3%; Score 103; DB 4; Length 551;  
 Best Local Similarity 21.5%; Pred. No. 0.098;  
 Matches 91; Conservative 63; Mismatches 163; Indels 106; Gaps 21;

QY 31 GEDEFETLQEA--CHRLGRYV--IGRMFRREENQAILL-----ELAODIYALLPREI 82  
 DB 99 GVDSEIRIDKSTYASLARYKYIIDEVHMLSTGAFNMLKTLIEPTQNVFILTATTEL 158

QY 83 PGKGPWEIVYPRNSDGEFLRLNRFLEERT---VSDNNRVLSGDTNCSAPR-VTIS 138  
 DB 159 -----HKIPATILSRVORPEFKSIKTODIKEHNYILEKENISSEPAVEII 205  
 QY 139 PEFMTWAOTLGAAVOPLLEOMLYRELRFVSGNTIS-----IPGALAFDAMLEHTTEMLO 192  
 DB 206 -----ARAEGBMDAL-STLDQALSLTQNEELTALISELTGTISLSA-LDDVVAALS 257  
 QY 193 MKQVPE-----GEKRRR---LMECIRGPALQVSGLRASNSITVEBCLAAQ 237  
 DB 258 QODVKAALSCNLILFDNCKSMTRFVTDLHYLRDLIIVOTGEGENTHSSVFENALPQK 317  
 QY 238 QVFGVESHKIAOVYLCAYOAGSKV--SSFVURL-----EPLQRAVENNVSRNVN 290  
 DB 318 NLF---EMIRLATVVLADIKSSLOPKIYAEKMTYALAEIKPEPLSGAVENIEATLRO-E 373  
 QY 291 QTRLKRVLSGA-TLPDKL-----RDKLKLKQRRKPPGEFLAVKLURE 332  
 DB 374 VARLQELSMNGAVPQVAPASRPATGKTYRVDRNKVQSILOEAVENPDLAQNLRL 433  
 QY 333 EEW---EATLGPRESLEGLVAPRPPAATITGVAVPLPASGN---STDAFPSQYR 384  
 DB 434 QNAWGEVIESLGGPDKALL-----VGSQPVANEHHAIIAIFESNNAQT 478  
 QY 385 RRR 387  
 DB 479 MKR 481

## RESULT 15

US-09-252-991A-32259  
 ; Sequence 32259, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; PRIOR FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 32259  
 ; LENGTH: 1201  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-32259

## Query Match

4.2%; Score 101.5; DB 4; Length 1201;  
 Best Local Similarity 20.7%; Pred. No. 0.52;  
 Matches 98; Conservative 58; Mismatches 155; Indels 163; Gaps 20;

QY 37 ETLQEAACHLGRY-----RVIGRMF---RRENAQAILLLELAODIYALLPREI 82  
 DB 645 ETLQEAACHLGRY-----RVIGRMF---RRENAQAILLLELAODIYALLPREI 82  
 QY 83 PGKGPWEIVYPRNSDGEFLRLNRFLEERT---VSDNNRVLSGDTNCSAPR-VTIS 138  
 DB 704 P-----LETVSEGE--ERLAAARDEQRELEGARQVRRVOVEGRHNGE----- 746  
 QY 133 PRTISPEFTWAOTLGAAVOPLLEOMLYRELRFVSGNTISIPGALAFDAMLEHTTEMLO 192  
 DB 747 -----LKAQASAOQAKVEQVLYARRRL-----DEVAELABORA 780  
 QY 193 MKQVPE-----GEKRRR---LMECIRGPALQVSGLRASNSITVEBCLAAQ 237  
 DB 781 LEQELSEARLTLOEALDSMALDTERRETLAERDALRELRDRIODARTKHAHQVAV 840  
 QY 217 -VSGLRASNASTIYEBCLAAQOVFGPVESHKIAOVYLCAYOAGSKVSSFVURL 275



```

Db      841 RVGSLKAOHNS--TQOALERLDQOARL--NERCEOLNL--NLEGAAPLEELRMKLEELL 895
Qy      276 OR--AVENNV-----VSRNVNQTRLKRVLSGATLPDKLR-----DKLK 312
Db      896 ERMMAVEDEIKOARLALBEDADRELRVEKRGQAEQOQOLRGQLEQORLEWOGIVVRK 955
Qy      313 LMKORRRPPGF-----LALVKLREBEWEATLGPDRSLEGLVAPRPPARITGVAVP 367
Db      956 ALQEQLAEDGYDLHTVLANLPUDASERDWE-----ERLESU-----AARIQRLGPI 1002
Qy      368 LPASGNSFDARPEQGYRRRGRGQH-----RRCGVAPAGSRGSRKXKXHTF 413
Db      1003 LAA----IEEYQOQSERKRYLDSQNDLAEVALETTLENVIRKIDRETRNRKETE 1052

```

Search completed: April 8, 2005, 12:52:59  
 Job time : 37.5652 secs























```

1  RESULT 13
2  US-09-804-014A-73
3  Sequence 73, Application US/09804014A
4  Publication No. US20030064489A1
5  GENERAL INFORMATION:
6
7  APPLICANT: Li, Li
8  APPLICANT: Padigaru, Muralidhara
9  APPLICANT: Vernet, Corine
10 APPLICANT: Fernandes, Elma
11 APPLICANT: Shimkets, Richard
12 APPLICANT: Spaderna, Steven
13 APPLICANT: Majumder, Kumud
14
15 TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
16
17 FILE REFERENCE: 15966-721 US
18
19 CURRENT APPLICATION NUMBER: US/09/804,014A
20
21 CURRENT FILING DATE: 2002-04-24
22
23 PRIOR APPLICATION NUMBER: 60/189,136
24
25 PRIOR FILING DATE: 2000-03-10
26
27 PRIOR APPLICATION NUMBER: 60/189,277
28
29 PRIOR FILING DATE: 2000-03-10
30
31 PRIOR APPLICATION NUMBER: 60/189,139
32
33 PRIOR FILING DATE: 2000-03-14
34
35 PRIOR APPLICATION NUMBER: 60/189,140
36
37 PRIOR FILING DATE: 2000-03-14
38
39 PRIOR APPLICATION NUMBER: 60/190,401
40
41 PRIOR FILING DATE: 2000-03-17
42
43 PRIOR APPLICATION NUMBER: 60/190,231
44
45 PRIOR FILING DATE: 2000-03-17
46
47 NUMBER OF SEQ ID NOS: 75

```



SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO 73  
 LENGTH: 312  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-804-014A-73

Query Match 30.6%; Score 740.5; DB 10; Length 312;  
 Best Local Similarity 48.8%; Pred. No. 2,9e-58;  
 Matches 148; Conservative 51; Mismatches 101; Indels 3; Gaps 2;

QY 1 MPYLLQDRCGSHLNTTRCMLILGIPEDCGDEFEETIQEACRHLYGRVIGRMFRRE 60  
 1 MTRLLIEDMCRGMDMPKRLALLIAGISQSCVAIEEALQAGLAPGEGYRLGRMFRRE 60  
 DB 61 NAAAILLEAODIDVALPREIPGKGPMVEIVKPRNSDGEFLNRLNRLFLREERTVSDM 120  
 61 NRVVALVGLTAETSHALVPEKIPGKGIMRWIFKPPDPNTFLSRINEFLAEGMTVGEL 120  
 QY 121 NRVLSGDTNCSAPRTVISPEFWT--WAQTLGAAVQPLLEQMLYRELVRVSGNTISIPGAL 178  
 121 SRALGHENSLDPEQGMIPEMMAFMLAQL-ELALPALQCLKXKULRVFSGRESPEEGEE 179  
 DB 179 AFDAWLEHTTEMLQMWQVPEGEKRRRLMECLRGPALOVSGLRASNASITVECLALAOQ 238  
 180 EFGRMWFHTTOMIKAMQVPEVEKRRRLLESIRGALDIVIRLVKINPLITVDECLALAE 239  
 QY 239 VFGPVESHKIAQVYKCAVOEAGEKVSFVLRLLEPLQRAVENNVSRNNVOTRLKRVL 298  
 240 VFGVTDNPRELQVKYLTYYQKDEKLSAYVLRLLEPLQKLVORGAIERDAVNAQARLDQVI 299  
 DB 299 SGA 301  
 300 AGA 302

RESULT 14  
 US-09-804-014A-74  
 Sequence 74, Application US/09804014A  
 Publication No. US20030064489A1  
 GENERAL INFORMATION:  
 APPLICANT: Li, Li  
 APPLICANT: Padigar, Muralidhara  
 APPLICANT: Verne, Corine  
 APPLICANT: Fernandes, Eima  
 APPLICANT: Shinkets, Richard  
 APPLICANT: Spaderna, Steven  
 APPLICANT: Majumder, Kunud  
 TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 FILE REFERENCE: 15966-721 US  
 CURRENT APPLICATION NUMBER: US/09/804,014A  
 CURRENT FILING DATE: 2002-04-24  
 PRIOR APPLICATION NUMBER: 60/188,316  
 PRIOR FILING DATE: 2000-03-10  
 PRIOR APPLICATION NUMBER: 60/189,139  
 PRIOR FILING DATE: 2000-03-14  
 PRIOR APPLICATION NUMBER: 60/189,140  
 PRIOR FILING DATE: 2000-03-14  
 PRIOR APPLICATION NUMBER: 60/190,401  
 PRIOR FILING DATE: 2000-03-17  
 PRIOR APPLICATION NUMBER: 60/190,231  
 PRIOR FILING DATE: 2000-03-17  
 NUMBER OF SEQ ID NOS: 75  
 SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO 74  
 LENGTH: 312  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-804-014A-74

Query Match 30.6%; Score 740.5; DB 10; Length 312;

Best Local Similarity 48.8%; Pred. No. 2,9e-58;  
 Matches 148; Conservative 51; Mismatches 101; Indels 3; Gaps 2;

QY 1 MPYLLQDRCGSHLNTTRCMLILGIPEDCGDEFEETIQEACRHLYGRVIGRMFRRE 60  
 1 MTRLLIEDMCRGMDMPKRLALLIAGISQSCVAIEEALQAGLAPGEGYRLGRMFRRE 60  
 DB 61 NAAAILLEAODIDVALPREIPGKGPMVEIVKPRNSDGEFLNRLNRLFLREERTVSDM 120  
 61 NRVVALVGLTAETSHALVPEKIPGKGIMRWIFKPPDPNTFLSRINEFLAEGMTVGEL 120  
 QY 121 NRVLSGDTNCSAPRTVISPEFWT--WAQTLGAAVQPLLEQMLYRELVRVSGNTISIPGAL 178  
 121 SRALGHENSLDPEQGMIPEMMAFMLAQL-ELALPALQCLKXKULRVFSGRESPEEGEE 179  
 DB 179 AFDAWLEHTTEMLQMWQVPEGEKRRRLMECLRGPALOVSGLRASNASITVECLALAOQ 238  
 180 EFGRMWFHTTOMIKAMQVPEVEKRRRLLESIRGALDIVIRLVKINPLITVDECLALAE 239  
 QY 239 VFGPVESHKIAQVYKCAVOEAGEKVSFVLRLLEPLQRAVENNVSRNNVOTRLKRVL 298  
 240 VFGVTDNPRELQVKYLTYYQKDEKLSAYVLRLLEPLQKLVORGAIERDAVNAQARLDQVI 299  
 DB 299 SGA 301  
 300 AGA 302

RESULT 15  
 US-10-037-860-11  
 Sequence 11, Application US/10037860  
 Publication No. US20020123114A1  
 GENERAL INFORMATION:  
 APPLICANT: Jerome B. Posner  
 APPLICANT: Joseph O. Dalmay  
 APPLICANT: Myrna R. Rosenfeld  
 TITLE OF INVENTION: MA FAMILY POLYPEPTIDES AND ANTI-MA  
 ANTIBODIES  
 FILE REFERENCE: 2581,1004-004  
 CURRENT APPLICATION NUMBER: US/10/037,860  
 CURRENT FILING DATE: 2001-01-04  
 PRIOR APPLICATION NUMBER: 09/189,527  
 PRIOR FILING DATE: 1998-11-10  
 NUMBER OF SEQ ID NOS: 14  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 11  
 LENGTH: 283  
 TYPE: PRT  
 ORGANISM: homo sapiens  
 US-10-037-860-11

Query Match 25.5%; Score 618.5; DB 13; Length 283;  
 Best Local Similarity 50.2%; Pred. No. 2,8e-47;  
 Matches 135; Conservative 44; Mismatches 85; Indels 5; Gaps 3;

QY 82 IPGKGPMVEIVKPRNSDGEFLNRLNRLFLREERTVSDMNRVLSGDTNCSAPRTVISPEF 141  
 1 VQKGGWVKVIFKTPQDTEFFERLNLFLKEGQTVSGMFRALGQGVSDATVPCISPEL 60  
 QY 142 WT--WAQTLGAAVQPLLEQMLYRELVRVSGNTISIPGALFADWLEHTTEMLQMWQVPEG 199  
 61 LAHLGQMAHAQPLI-PKRYKLVFSGSAVPAEESFEVWLQATEIVKEMVTEA 119  
 DB 200 EKRRRLMECLRGPALOVSGLRASNASITVECLALAOQVFGVESHKIAQVYKCAVOE 259  
 120 EKRWLAESLRGALDLMHIVQADNPISIVEECLAFKOVFGSLBSRRRTAQVYLLTYOE 179  
 QY 260 AGEKVSFVLRLLEPLQRAVENNVSRNNVOTRLKRVLSGATLPKLDKXLMKORR 319  
 180 EGEKVSAYVRLRLETLRKAVKRAIPRIADQVRLQVAVAGATVNLQMLCRLEKLDQGP 239  
 QY 320 PGFLALVRLREEEWEATLGPRESLE 348



Fri Apr 8 14:12:54 2005

us-10-037-860-13.rapb

Page 8

Db 240 PPSFLMLKVIREEEEASF--ENESIE 266

Search completed: April 8, 2005, 13:35:16  
Job time : 104.433 secs

---



**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**